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## LETTER OF TRANSMITTAL

Date:	10/30/97	Job No.:	94039.00 T1
Attention:	Joseph J. Nowak		
Re:	Hexcel Corporation		
	Lodi Borough, Bergen County, NJ		
	ISRA Case No. 86009		

To: NJDEP-BEECRA

401 East State Street

Trenton, NJ 08625

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COPIES	DATE	DESCRIPTION
3	10/29/97	Progress Report for the third quarter of 1997

Remarks:

COPY TO:

A. William Nosil

Edward A. Hogan, Esq.

File

SIGNED:

  
Marjorie A. Piette

If enclosures are not as noted, kindly notify us at once.

SDMS Document



88239

October 29, 1997

Joseph J. Nowak  
New Jersey Department of Environmental Protection  
Bureau of Environmental Evaluation and Cleanup Responsibility Assessment  
401 East State Street, CN 432  
Trenton, NJ 08625

**SUBJ: Hexcel Corporation**  
**Lodi Borough, Bergen County, New Jersey**  
**ISRA Case No. 86009**  
**GEO Project No. 94039**

Dear Mr. Nowak:

On behalf of Hexcel Corporation (Hexcel), the following is the progress report of activities carried out during July, August and September of 1997. This quarterly report is prepared in accordance with the Industrial Site Recovery Act (ISRA) requirements for the former Hexcel facility in Lodi, New Jersey.

Please note that GEO Engineering has merged with the firm of Haley and Aldrich, Inc. This will not affect Hexcel's ISRA case, except that future reports and letters from our office will carry the logo of Haley and Aldrich. Our relationship with Hexcel remains unchanged and the same personnel will continue to conduct the ISRA work.

The following topics are discussed in this progress report:

1. Ground Water/DNAPL/LNAPL Monitoring
  - a) Quarterly Monitoring
  - b) Monthly Monitoring
2. Product Recovery Program
  - a) DNAPL Recovery
  - b) LNAPL Recovery
3. Ground Water Treatment System
4. Off-Site Investigation

5. Sediment Sampling
6. Waste Disposal Documentation
7. Schedule and Cost Estimates

## **1. Ground Water/DNAPL/LNAPL Monitoring**

This section includes the results of quarterly monitoring performed in July 1997 and monthly monitoring performed in August and September 1997. Modifications to the NJDEP-approved "Groundwater/DNAPL/LNAPL Monitoring Plan" prepared by Killam Associates were presented in our progress report dated October 24, 1994. The modifications were approved by the NJDEP in its June 12, 1995 letter. Sections 1a and 1b provide details for quarterly and monthly monitoring, respectively.

### **1a. Quarterly Monitoring**

Hexcel conducted quarterly ground water elevation, DNAPL and LNAPL monitoring on July 28, 1997, in accordance with the monitoring plan. Appendix A contains figures and tables developed from the quarterly monitoring. These are discussed below. Results of the quarterly monitoring are tabulated in Table 1. Figures 1 and 2 illustrate shallow and deep ground water elevation contours, respectively. Contour Map Reporting Forms are included for each of the contour maps. Table 2 contains a summary of well construction data to accompany the Contour Map Reporting Form for Figure 1.

### **1b. Monthly Monitoring**

In addition to the quarterly monitoring conducted in July, Hexcel conducted monthly DNAPL and LNAPL monitoring on August 12 and September 9, in accordance with the monitoring plan and modifications approved by the NJDEP in its June 12, 1995 letter. The following modifications were made to the monthly monitoring plan in the third quarter of 1997.

- CW-7 was monitored in August and September subsequent to presence of LNAPL observed in the well at the time of the quarterly monitoring in July.

Results for the August and September monthly monitoring are provided in Tables 3 and 4 located in Appendix B.

Hexcel will continue to modify the monthly monitoring by the addition or deletion of wells in accordance with the approved plan.

## **2. Product Recovery Program**

This section includes results for the temporary product recovery program currently being implemented at the site. The product recovery program, performed on a weekly basis, was initiated on October 20, 1994, and consists of recovering product from affected wells. During the early stages of the program, bailers were used to recover product. Presently, most wells have been equipped with tubing that can be connected to peristaltic pumps that help recover the product. After one month, the program's frequency was reduced to twice a month due to a reduction in the quantity of product recovered. Product recovery continued at the rate of at least twice a month through the week of June 19, 1995. In accordance with the NJDEP's June 12, 1995 letter, weekly product recovery was resumed the week of June 26, 1995.

In its May 23, 1996 letter, the NJDEP approved modifications to the weekly product recovery program for LNAPL and DNAPL. The modifications proposed by Hexcel changed the criteria for inclusion of wells in the weekly product recovery program. The modifications were communicated to the NJDEP in a letter dated September 21, 1995 and also in the October 1995 progress report. According to the modifications, any well which has no measurable recovery for three consecutive weekly recovery rounds will be moved to monthly monitoring and recovery. For the purposes of product collection, quantities greater than 0.1 gallon (approximately 1 cup) are considered to be measurable. Based on our experience, if the product interface meter does not signal the presence of product, then it is not possible to pump a significant amount of DNAPL from the well, even when DNAPL is observed on the probe. Therefore, DNAPL recovery is usually attempted only when there is a signal from the product interface meter indicating the presence of product.

### **2a. DNAPL Recovery**

During the third quarter of 1997, monitoring wells MW-6 and PB-2 were monitored for the presence of DNAPL on a weekly basis. Product recovery was attempted every time the product interface probe indicated measurable product. Approximately 0.2 gallons of DNAPL from MW-6 and 0.5 gallons of DNAPL from PB-2 were recovered during the third quarter of 1997. DNAPL recovery during this quarter is summarized in Table 5, located in Appendix C.

### **2b. LNAPL Recovery**

Subsequent to detection of LNAPL in CW-7 during the quarterly monitoring in July 1997, LNAPL recovery was performed at this well. A total of approximately 1.3 gallons of LNAPL were recovered from CW-7 in three consecutive weeks following the

quarterly monitoring. Monitoring for five additional weeks, till the end of September, did not indicate further recoverable product. LNAPL recovery is summarized in Table 6, located in Appendix C.

### **3. Ground Water Treatment System**

Ground water as basement seepage water continues to be treated on-site and discharged to the Passaic Valley Sewerage Commissioners (PVSC) sewer line. This continues to depress the ground water in this area allowing for the recovery of contaminated ground water in the vicinity of the basement.

### **4. Off-Site Investigation**

Hexcel believes that off-site investigation by Hexcel for soil and ground water contamination at Napp Technologies, Inc. (Napp) is unnecessary at this time. Napp is undergoing an ISRA investigation and has performed soil and ground water sampling at its site. Based on the review of Napp's Remedial Investigation Report and NJDEP's response to this report, we understand that further investigation will be conducted at this site by Napp.

We gained access to the U.S. Army Corps of Engineers (Army Corps) well across the Saddle River from the Hexcel site on October 28, 1997. We surveyed the well and measured the depth to water and depth to bottom in the well. We will evaluate this information together with the construction details of the well, provided by the Army Corps, and report our results in our next progress report.

### **5. Sediment Sampling**

Sediment sampling was conducted on October 10, 1997. We will provide the results with our next progress report.

### **6. Waste Disposal Documentation**

The disposal documentation for the third quarter of 1997 is provided in Appendix D. On July 16, 1997, approximately 1900 gallons of pumpable water treatment sludge were taken off-site for disposal via incineration at the Laidlow Environmental Services, Inc. (LES) facility in Bridgeport, New Jersey. On August 20, 1997, eleven 55-gallon drums of used personal protective equipment and one 55-gallon drum of contaminated Speedi-Dry were taken off-site for disposal via incineration at the LES facility in Deer Park, Texas. Also on August 20, 1997, thirty-seven 55-gallon drums of non-pumpable

water treatment sludge were taken off-site for disposal via incineration at the LES facility in Laurel, Maryland.

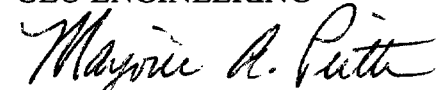
## 7. Schedule and Cost Estimates

Table 7 located in Appendix E presents an updated estimate of the schedule of remaining remedial activities. There has been no change to date in the estimate of cleanup costs.

We will continue to submit quarterly progress reports according to the schedule. Please call us if you have any questions regarding the above.

Sincerely,

GEO ENGINEERING



Marjorie A. Piette  
Project Manager

MAP/avm  
Enclosures

cc A. William Nosil  
Edward Hogan, Esq.

## **Appendix A**

### **Quarterly Monitoring**

**Table 1: Quarterly Water Level/Product Thickness Measurements (7/28/97)**

**Table 2: Well Construction Data**

**Contour Map Reporting Form for Figure 1**

**Figure 1: Shallow Ground Water Elevation Contours on 7/28/97**

**Contour Map Reporting Form for Figure 2**

**Figure 2: Deep Ground Water Elevation Contours on 7/28/97**

TABLE 1: QUARTERLY WATER LEVEL/PRODUCT THICKNESS MEASUREMENTS (7/28/97)

Hexcel Facility  
Lodi, New Jersey-All measurements in feet -  
-All elevations in feet (NGVD)-

GEO Engineering

October 1997

File: Quarter1/Qtr97.xls (July97 Quart)

Entered by: SG Checked by: SKT

Well ID	Type	Depth to Water (7/28/97)	Depth to Product		Product Thickness	Depth to Bottom (7/28/97)	Elevation Top of Casing	Water Elevation	Well Construction (all 4" diameter unless otherwise noted)		
			DNAPL	LNAPL					Type	Casing	Comments
RW Series:											
RW1-1	shallow	4.69	--	--	--	14.30	28.24	23.55	flush	s. steel	
RW6-1	shallow	N/A	--	--	--	N/A	28.84	N/A	flush	s. steel	Not accessible; pallets of drums covering the well.
RW6-2	shallow	3.07	--	--	--	14.79	29.34	26.27	flush	s. steel	Sediment on probe.
RW6-3	shallow	3.74	--	--	--	5.45	28.72	24.98	flush	s. steel	
RW7-1	shallow	5.72	--	--	--	16.53	26.25	20.53	flush	s. steel	Sediment on probe.
RW7-2	shallow	6.19	--	--	--	16.81	26.48	20.29	flush	s. steel	Sediment on probe.
RW7-3	shallow	6.39	--	--	--	17.25	26.78	20.39	flush	s. steel	Sediment on probe.
RW7-4	shallow	6.74	--	--	--	19.10	27.11	20.37	flush	s. steel	Product on probe (DNAPL)**.
RW7-5	shallow	7.31	--	--	--	19.25	27.57	20.26	flush	s. steel	
RW7-6	shallow	6.79	--	--	--	14.97	26.48	19.69	flush	s. steel	
RW7-7	shallow	6.81	--	--	--	14.86	26.89	20.08	flush	s. steel	
RW7-8	shallow	5.44	--	--	--	14.97	25.90	20.46	flush	s. steel	Sediment on probe.
RW7-9	shallow	6.79	--	--	--	16.17	26.87	20.08	flush	s. steel	Sediment on probe.
RW7-10	shallow	6.93	--	--	--	14.17	26.10	19.17	flush	s. steel	Sediment on probe
RW15-1	shallow	6.68	--	--	--	14.89	29.95	23.27	flush	s. steel	Sediment on probe.
RW15-2	shallow						30.15		flush	s. steel	Well not included in quarterly monitoring plan.
P Series:											
P-1	shallow	6.35	--	--	--	9.50	30.09	23.74	flush	1.5" pvc	
P-2	shallow	WA	--	--	--	WA	30.19	WA	flush	1.5" pvc	Well was sealed on March 29, 1996.
PI Series:											
PI-1	deep						26.90		flush	8" s. steel	Well not included in quarterly monitoring plan.

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TABLE 1: QUARTERLY WATER LEVEL/PRODUCT THICKNESS MEASUREMENTS (7/28/97)

Hexcel Facility  
Lodi, New Jersey

-All measurements in feet -  
-All elevations in feet (NGVD)-

GEO Engineering

October 1997

File: Quarterl/Qrtr97.xls (July97 Quart)

Entered by: SG Checked by: SKT

Well ID	Type	Depth to Water (7/28/97)	Depth to Product		Product Thickness	Depth to Bottom (7/28/97)	Elevation Top of Casing	Water Elevation	Well Construction (all 4" diameter unless otherwise noted)		
			DNAPL	LNAPL					Type	Casing	Comments
CW Series:											
CW-1	shallow	6.76	--	--	--	11.45	29.77	23.01	flush	s.steel	Sediment on probe.
CW-2	shallow						29.51		flush	s.steel	Well not included in quarterly monitoring plan.
CW-3	shallow						29.72		flush	s.steel	Recovery well; not included in monitoring plan.
CW-4	shallow	5.80	--	--	--	10.96	28.83	23.03	flush	s.steel	
CW-5	shallow						28.67		flush	s.steel	Recovery well; not included in monitoring plan.
CW-6	shallow						28.93		flush	s.steel	Well not included in quarterly monitoring plan.
CW-7	shallow	7.51 *	--	7.35	1.35	13.99	26.13	18.62	flush	s.steel	The measured DTW is 8.70 ft.; refer to notes.
CW-8	shallow	8.22	--	--	--	13.90	26.77	18.55	flush	s.steel	
CW-9	shallow						26.37		flush	s.steel	Recovery well; not included in monitoring plan.
CW-10	shallow	7.30	--	--	--	10.21	25.91	18.61	flush	s.steel	
CW-11	shallow						25.74		vaultbox	s.steel	Recovery well; not included in monitoring plan.
CW-12	shallow	7.18	--	--	--	13.95	25.71	18.53	flush	s.steel	Product on probe ( DNAPL)**.
CW-13	shallow						26.05		flush	s.steel	Well not included in quarterly monitoring plan.
CW-14	shallow	7.55	--	--	--	13.88	26.37	18.82	flush	s.steel	
CW-15	shallow						26.31		flush	s.steel	Recovery well; not included in monitoring plan.
CW-16	shallow	7.46	--	--	--	13.91	26.45	18.99	flush	s.steel	Product on probe (DNAPL)**.
CW-17	shallow	6.82	--	--	--	13.94	26.25	19.43	flush	s.steel	Sediment on probe.
CW-18	shallow						26.61		flush	s.steel	Recovery well; not included in monitoring plan.
CW-19	shallow						26.50		flush	s.steel	Well not included in quarterly monitoring plan.
CW-20	shallow						26.74		flush	s.steel	Well not included in quarterly monitoring plan.
CW-21	shallow						26.77		flush	s.steel	Recovery well; not included in monitoring plan.
CW-22	shallow						26.35		flush	s.steel	Well not included in quarterly monitoring plan.

882390009

TABLE 1: QUARTERLY WATER LEVEL/PRODUCT THICKNESS MEASUREMENTS (7/28/97)

Hexcel Facility  
Lodi, New Jersey-All measurements in feet -  
-All elevations in feet (NGVD)-

GEO Engineering

October 1997

File: Quarterl/Qrtr97.xls (July97 Quart)

Entered by: SG Checked by: SKT

Well ID	Type	Depth to Water (7/28/97)	Depth to Product		Product Thickness	Depth to Bottom (7/28/97)	Elevation Top of Casing	Water Elevation	Well Construction (all 4" diameter unless otherwise noted)		
			DNAPL	LNAPL					Type	Casing	Comments
MW Series:											
MW-1	(a)	9.71	--	--	--	23.52	32.42	22.71	stickup	pvc	
MW-2	shallow	7.48	--	--	--	10.25	31.00	23.52	stickup	pvc	
MW-3	deep	10.20	--	--	--	30.75	31.13	20.93	stickup	pvc	Sediment on probe.
MW-4	shallow	7.73	--	--	--	9.91	32.33	24.60	stickup	pvc	
MW-5	deep	11.01	--	--	--	28.34	32.54	21.53	stickup	pvc	
MW-6	shallow	9.95	--	--	--	18.35	30.74	20.79	stickup	pvc	Product on probe (DNAPL)**.
MW-7	deep	9.54	--	--	--	32.90	30.68	21.14	stickup	pvc	
MW-8	shallow	11.77	--	--	--	17.35	30.26	18.49	stickup	pvc	Product on probe (DNAPL)**.
MW-9	deep	8.67	--	--	--	29.55	29.83	21.16	stickup	pvc	
MW-10	shallow	12.44	--	--	--	16.77	30.83	18.39	stickup	pvc	
MW-11	deep	9.88	--	--	--	33.49	30.78	20.90	stickup	pvc	
MW-12	shallow	10.21	--	--	--	17.21	31.01	20.80	stickup	pvc	
MW-13	deep	9.57	--	--	--	33.19	31.16	21.59	stickup	pvc	
MW-14	shallow	11.32	--	--	--	15.59	30.70	19.38	stickup	pvc	
MW-15	deep	8.79	--	--	--	25.62	30.77	21.98	stickup	pvc	
MW-16	shallow	6.43	--	--	--	12.64	29.69	23.26	stickup	pvc	
MW-17	shallow	8.70	--	--	--	14.10	31.44	22.74	stickup	pvc	
MW-18	shallow	8.47	--	--	--	11.27	32.23	23.76	stickup	pvc	
MW-19	deep	7.03	--	--	--	26.59	29.08	22.05	stickup	pvc	
MW-20	shallow	4.85	--	--	--	20.08	27.95	23.10	flush	pvc	
MW-21	shallow	8.35	--	--	--	15.11	30.67	22.32	stickup	pvc	
MW-22	shallow	5.34	--	--	--	8.24	28.45	23.11	flush	pvc	
MW-23	shallow	3.82	--	--	--	9.60	27.51	23.69	flush	pvc	
MW-24	shallow	3.34	--	--	--	9.61	26.51	23.17	flush	pvc	
MW-25	shallow	7.33	--	--	--	12.79	26.03	18.70	flush	pvc	

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TABLE 1: QUARTERLY WATER LEVEL/PRODUCT THICKNESS MEASUREMENTS (7/28/97)

Hexcel Facility  
Lodi, New Jersey-All measurements in feet -  
-All elevations in feet (NGVD)-

GEO Engineering

October 1997

File: Quarter1/Qtr97.xls (July97 Quart)

Entered by: SG Checked by: SKT

Well ID	Type	Depth to Water (7/28/97)	Depth to Product		Product Thickness	Depth to Bottom (7/28/97)	Elevation Top of Casing	Water Elevation	Well Construction (all 4" diameter unless otherwise noted)		
			DNAPL	LNAPL					Type	Casing	Comments
MW Series:											
MW-26	(b)	8.82	--	--	--	17.93	28.85	20.03	flush	2" pvc	
MW-27	shallow	6.92	--	--	--	12.53	31.43	24.51	stickup	pvc	
MW-28	shallow	10.41	--	--	--	14.81	29.68	19.27	stickup	pvc	
MW-29	shallow	3.77	--	--	--	9.35	27.32	23.55	flush	pvc	Sediment on probe.
MW-30	shallow	4.42	--	--	--	10.48	28.08	23.66	flush	pvc	Sediment on probe.
MW-31	shallow	4.35	--	--	--	10.61	27.95	23.60	flush	pvc	
MW-32	shallow	WA				WA	32.51	WA	stickup	pvc	Well was sealed on March 29, 1996.
MW-33	shallow	9.63	--	--	--	16.99	31.72	22.09	stickup	pvc	Sediment on probe.
PB Series:											
PB-1	shallow	4.38	--	--	--	N/A	21.78	17.40	stickup	2" g. steel	Well filled with sediment.
PB-2	shallow	1.22	--	--	--	5.82	21.25	20.03	stickup	2" g. steel	Product on probe (DNAPL)**.
PB-4	shallow	1.50	--	--	--	5.16	21.52	20.02	stickup	2" g. steel	

NOTES: All measurements of depths are from the top of casing unless otherwise noted.

-- : Not detected by product interface meter.

N/A : Well not accessible.

(a) : Subsurface investigation in December 1995 near MW-1 revealed that MW-1 is not a deep well; refer to Section 1a of the April 1996 Progress Report for details.

(b) : Construction data for MW-26 reveal that MW-26 is not a deep well; refer to Section 1a of the April 1996 Progress Report for details.

WA : Well was sealed on March 29, 1996. Refer to April 1996 Progress Report for details.

\* : In wells with LNAPL, water levels are corrected using the equation: DTW (corrected) = DTW (measured) - (Product thickness \* specific gravity).  
Specific gravity of 0.88 used for water level correction (petroleum lubricating oil).

\*\* : Though the product interface meter did not register presence of product in the well, product was observed on the probe.

Many of the wells have accumulated sediment which results in slight fluctuations in the measurements of depth to bottom.

TABLE 2: WELL CONSTRUCTION DATA

Hexcel Facility  
Lodi, New Jersey-All measurements in feet -  
-All elevations in feet (NGVD)-

GEO Engineering

October 1997

File: Quarter1/Qtr97.xls

(WellInfo July97)

Well ID	Type	Ground Elevation	Elevation Top of Casing	Depth to Bottom (7/28/97)	Length of Screen	Elevation Top of Screen	Water Elevation (7/28/97)	Well Construction *		Installation		Water Table Elv. > Top of Screen Elv.
								Type	Casing	Date	By	
RW Series:												
RW1-1	shall.	28.67	28.24	14.30	10	23.67	23.55	flush	s.steel	10/91	Heritage	No
RW6-1	shall.	29.28	28.84	N/A	5	20.28	N/A	flush	s.steel	8/90	Heritage	N/A
RW6-2	shall.	U	29.34	14.79	5	U	26.27	flush	s.steel	8/90	Heritage	U
RW6-3	shall.	29.02	28.72	5.45	5	27.52	24.98	flush	s.steel	8/90	Heritage	No
RW7-1	shall.	26.94	26.25	16.53	5	13.94	20.53	flush	s.steel	8/90	Heritage	Yes
RW7-2	shall.	27.07	26.48	16.81	5	14.57	20.29	flush	s.steel	8/90	Heritage	Yes
RW7-3	shall.	27.17	26.78	17.25	5	14.67	20.39	flush	s.steel	8/90	Heritage	Yes
RW7-4	shall.	27.60	27.11	19.10	5	13.60	20.37	flush	s.steel	8/90	Heritage	Yes
RW7-5	shall.	27.97	27.57	19.25	5	12.97	20.26	flush	s.steel	9/90	Heritage	Yes
RW7-6	shall.	27.10	26.48	14.97	5	17.10	19.69	flush	s.steel	9/90	Heritage	Yes
RW7-7	shall.	27.25	26.89	14.86	5	17.25	20.08	flush	s.steel	9/90	Heritage	Yes
RW7-8	shall.	26.71	25.90	14.97	5	16.71	20.46	flush	s.steel	9/90	Heritage	Yes
RW7-9	shall.	27.18	26.87	16.17	5	15.18	20.08	flush	s.steel	2/91	Heritage	Yes
RW7-10	shall.	26.50	26.10	14.17	5	16.50	19.17	flush	s.steel	2/91	Heritage	Yes
RW15-1	shall.	30.43	29.95	14.89	10	25.68	23.27	flush	s.steel	8/90	Heritage	No
RW15-2	shall.	30.37	30.15		10	26.37	NI	flush	s.steel	8/90	Heritage	NI
P Series:												
P-1	shall.	U	30.09	9.50	U	U	23.74	flush	1.5" pvc	U	U	U
P-2	shall.	U	30.19	WA	U	U	WA	flush	1.5" pvc	U	U	U, WA
PI Series:												
PI-1	deep	U	26.90		U	U	NI	flush	s.steel	10/91	Heritage	^

TABLE 2: WELL CONSTRUCTION DATA  
Hexcel Facility  
Lodi, New Jersey

-All measurements in feet -  
-All elevations in feet (NGVD)-

GEO Engineering  
October 1997  
File: Quarter1/Qtr97.xls  
(WellInfo July97)

Well ID	Type	Ground Elevation	Elevation Top of Casing	Depth to Bottom (7/28/97)	Length of Screen	Elevation Top of Screen	Water Elevation (7/28/97)	Well Construction *		Installation		Water Table Elv. > Top of Screen Elv.
								Type	Casing	Date	By	
CW Series:												
CW-1	shall.	30.27	29.77	11.45	5	23.27	23.01	flush	s.steel	9/90	Heritage	No
CW-2	shall.	30.11	29.51		5	23.11	NI	flush	s.steel	9/90	Heritage	NI
CW-3	recov.	U	29.72		5	U	NI	flush	s.steel	9/90	Heritage	NI
CW-4	shall.	29.10	28.83	10.96	5	22.60	23.03	flush	s.steel	7/90	Heritage	Yes
CW-5	recov.	28.89	28.67		5	22.39	NI	flush	s.steel	7/90	Heritage	NI
CW-6	shall.	29.25	28.93		5	25.25	NI	flush	s.steel	9/90	Heritage	NI
CW-7	shall.	26.70	26.13	13.99	5	17.70	18.62	flush	s.steel	8/90	Heritage	Yes
CW-8	shall.	26.70	26.77	13.90	5	17.70	18.55	flush	s.steel	8/90	Heritage	Yes
CW-9	recov.	26.60	26.37		5	17.60	NI	flush	s.steel	8/90	Heritage	NI
CW-10	shall.	26.50	25.91	10.21	5	17.50	18.61	flush	s.steel	8/90	Heritage	Yes
CW-11	recov.	26.60	25.74		5	17.60	NI	vaultbox	s.steel	8/90	Heritage	NI
CW-12	shall.	26.51	25.71	13.95	5	17.51	18.53	flush	s.steel	8/90	Heritage	Yes
CW-13	shall.	26.60	26.05		5	17.60	NI	flush	s.steel	8/90	Heritage	NI
CW-14	shall.	26.70	26.37	13.88	5	17.70	18.82	flush	s.steel	8/90	Heritage	Yes
CW-15	recov.	26.90	26.31		5	17.90	NI	flush	s.steel	8/90	Heritage	NI
CW-16	shall.	27.00	26.45	13.91	5	18.00	18.99	flush	s.steel	8/90	Heritage	Yes
CW-17	shall.	27.10	26.25	13.94	5	18.10	19.43	flush	s.steel	8/90	Heritage	Yes
CW-18	recov.	27.20	26.61		5	18.20	NI	flush	s.steel	8/90	Heritage	NI
CW-19	shall.	27.20	26.50		5	18.20	NI	flush	s.steel	8/90	Heritage	NI
CW-20	shall.	27.30	26.74		5	18.30	NI	flush	s.steel	8/90	Heritage	NI
CW-21	recov.	27.40	26.77		5	18.40	NI	flush	s.steel	8/90	Heritage	NI
CW-22	shall.	27.30	26.35		5	18.30	NI	flush	s.steel	8/90	Heritage	NI

882390013

TABLE 2: WELL CONSTRUCTION DATA

Hexcel Facility  
Lodi, New Jersey-All measurements in feet -  
-All elevations in feet (NGVD)-

GEO Engineering

October 1997

File: Quarter1/Qrtr97.xls

(WellInfo July97)

Well ID	Type	Ground Elevation	Elevation Top of Casing	Depth to Bottom (7/28/97)	Length of Screen	Elevation Top of Screen	Water Elevation (7/28/97)	Well Construction *		Installation		Water Table Elv. > Top of Screen Elv.
								Type	Casing	Date	By	
MW Series:												
MW-1	(a)	29.03	32.42	23.52	5	13.88	22.71	stickup	pvc	7/88	Environ	(a)
MW-2	shall.	27.90	31.00	10.25	5	26.13	23.52	stickup	pvc	8/88	Environ	No
MW-3	deep	27.84	31.13	30.75	5	5.30	20.93	stickup	pvc	8/88	Environ	^
MW-4	shall.	29.02	32.33	9.91	5	27.49	24.60	stickup	pvc	8/88	Environ	No
MW-5	deep	29.03	32.54	28.34	5	9.12	21.53	stickup	pvc	8/88	Environ	^
MW-6	shall.	27.14	30.74	18.35	10	22.12	20.79	stickup	pvc	8/88	Environ	No
MW-7	deep	27.18	30.68	32.90	5	2.55	21.14	stickup	pvc	7/88	Environ	^
MW-8	shall.	26.92	30.26	17.35	10	22.98	18.49	stickup	pvc	8/88	Environ	No
MW-9	deep	26.89	29.83	29.55	5	5.09	21.16	stickup	pvc	7/88	Environ	^
MW-10	shall.	27.33	30.83	16.77	11	24.81	18.39	stickup	pvc	8/88	Environ	No
MW-11	deep	27.28	30.78	33.49	10	6.86	20.90	stickup	pvc	7/88	Environ	^
MW-12	shall.	27.62	31.01	17.21	10	24.05	20.80	stickup	pvc	8/88	Environ	No
MW-13	deep	27.63	31.16	33.19	5	2.89	21.59	stickup	pvc	7/88	Environ	^
MW-14	shall.	27.12	30.70	15.59	9	24.18	19.38	stickup	pvc	8/88	Environ	No
MW-15	deep	27.17	30.77	25.62	5	10.13	21.98	stickup	pvc	7/88	Environ	^
MW-16	shall.	26.71	29.69	12.64	5	22.14	23.26	stickup	pvc	8/88	Environ	Yes
MW-17	shall.	29.10	31.44	14.10	8	25.10	22.74	stickup	pvc	1/89	Environ	No
MW-18	shall.	29.04	32.23	11.27	5	25.97	23.76	stickup	pvc	8/88	Environ	No
MW-19	deep	27.30	29.08	26.59	5	7.30	22.05	stickup	pvc	1/89	Environ	^
MW-20	shall.	28.50	27.95	20.08	5	13.50	23.10	flush	pvc	11/90	Heritage	Yes
MW-21	shall.	28.80	30.67	15.11	10	25.80	22.32	stickup	pvc	9/90	Heritage	No
MW-22	shall.	28.73	28.45	8.24	5	25.73	23.11	flush	pvc	12/90	Heritage	No
MW-23	shall.	27.83	27.51	9.60	5	22.83	23.69	flush	pvc	11/90	Heritage	Yes
MW-24	shall.	26.93	26.51	9.61	5	21.93	23.17	flush	pvc	11/90	Heritage	Yes
MW-25	shall.	26.47	26.03	12.79	10	23.47	18.70	flush	pvc	9/90	Heritage	No

882390014

TABLE 2: WELL CONSTRUCTION DATA

Hexcel Facility  
Lodi, New Jersey-All measurements in feet -  
-All elevations in feet (NGVD)-

GEO Engineering

October 1997

File: Quarter1/Qrtr97.xls

(WellInfo July97)

Well ID	Type	Ground Elevation	Elevation Top of Casing	Depth to Bottom (7/28/97)	Length of Screen	Elevation Top of Screen	Water Elevation (7/28/97)	Well Construction *		Installation		Water Table Elv. > Top of Screen Elv.
								Type	Casing	Date	By	
MW Series:												
MW-26	(b)	29.26	28.85	17.93	2	12.26	20.03	flush	2" pvc	12/90	Heritage	(b)
MW-27	shall.	29.10	31.43	12.53	5	24.10	24.51	stickup	pvc	9/90	Heritage	Yes
MW-28	shall.	27.50	29.68	14.81	10	24.50	19.27	stickup	pvc	9/90	Heritage	No
MW-29	shall.	27.50	27.32	9.35	5	22.50	23.55	flush	pvc	2/91	Heritage	Yes
MW-30	shall.	28.25	28.08	10.48	5	22.25	23.66	flush	pvc	2/91	Heritage	Yes
MW-31	shall.	28.33	27.95	10.61	5	22.33	23.60	flush	pvc	2/91	Heritage	Yes
MW-32	shall.	U	32.51	WA	6	U	WA	stickup	pvc	4/92	Heritage	WA
MW-33	shall.	U	31.72	16.99	10	U	22.09	stickup	pvc	4/92	Heritage	U
PB Series:												
PB-1	shallow	17.46	21.78	N/A	1	16.46	17.40	stickup	2" g.steel	6/95	GEO	Yes
PB-2	shallow	17.50	21.25	5.82	1	16.70	20.03	stickup	2" g.steel	6/95	GEO	Yes
PB-4	shallow	17.52	21.52	5.16	1	16.72	20.02	stickup	2" g.steel	6/95	GEO	Yes

NOTES: Refer to "Table 2: Summary of Well Construction Data " provided in Appendix B of Progress Report dated July 31, 1995 for the list of sources used for compiling this table.

All measurements of depths are from the top of casing unless otherwise noted.

N/A: Well was inaccessible on the day of quarterly monitoring.

NI: Well not included in the quarterly monitoring.

U: Unknown.

\*: All wells 4" diameter unless otherwise noted.

^: Well is screened in the confined aquifer, therefore, the question is not applicable.

(a): Ground water elevation data from MW-1 have been excluded from both shallow and deep aquifer contours; refer to Section 1a of the April 1996 Report for details.

(b): Ground water elevation data from MW-26 have been excluded from both shallow and deep aquifer contours; refer to Section 1a of the April 1996 Report for details.

WA: P-2 and MW-32 were sealed on March 29, 1996; refer to April 1996 Progress Report text for details.

882390015

## Contour Map Reporting Form

Site Name: Hexcel Facility, Lodi, NJ  
Project No.: 94039

Figure No.: 1  
Water levels taken on 7/28/97  
Page 1 of 2

1. Did any surveyed well casing elevations change from the previous sampling event? ☐ Yes  
If yes, attach new "Well Certification -Form B" and identify the reason for the elevation change (damage to casing, installation of recovery system in monitoring well, etc.) ☒ No

2. Are there any monitor wells in unconfined aquifers in which the water table elevation is higher than the top of the well screen? ☒ Yes  
If yes, identify these wells. ☐ No

*Monitor wells for which the water table elevations are higher than the top of the well screen are identified in Table 2: Summary of Well Construction Data provided in Appendix A.*

3. Are there any monitor wells present at the site but omitted from the contour map? ☒ Yes  
Unless the omission of the well(s) has been previously approved by the Department, justify the omissions. ☐ No

*Quarterly ground water elevation monitoring plan approved by NJDEP in its June 12, 1995 letter. For information on additional omissions, please refer to Figure 1 and Table 1.*

4. Are there any monitor wells containing separate phase product during this measuring event? ☒ Yes  
Were any of the monitor wells with separate phase product included in the ground water contour map? ☐ No  
If yes, show the formula used to correct the water table elevation. ☒ Yes  
☐ No

*Water table elevation, for wells with LNAPL, was corrected using the following formula:  
Depth to Water (corrected) =  
Depth to Water (measured) - (Product Thickness X Specific Gravity)  
Specific gravity of 0.88 was used for calculation.*

5. Has the ground water flow direction changed more than 45 degrees from the previous ground water contour map? ☐ Yes  
If yes, discuss the reasons for the change. ☒ No

6. Has ground water mounding and/or depressions been identified in the ground water contour map? ☒ Yes  
Unless the ground water mounds and/or depressions are caused by the ground water remediation system, discuss the reasons for this occurrence. ☐ No

*It is not known why mounding occurs in the vicinity of building 2.*

**Site Name:** Hexcel Facility, Lodi, NJ  
**Project No.:** 94039

**Figure No.:** 1  
**Water levels taken on** 7/28/97  
**Page 2 of 2**

7. Are all the wells used in the contour map screened in the same water-bearing zone? ☒ Yes  
If no, justify inclusion of those wells. ☐ No
8. Were the ground water contours  
☒ computer generated, ☐ computer aided, or ☐ hand-drawn?  
If computer aided or generated, identify the interpolation method(s) used.

*Kriging Routine*

## Contour Map Reporting Form

Site Name: Hexcel Facility, Lodi, NJ

Project No.: 94039

Figure No.: 2

Water levels taken on 7/28/97

Page 1 of 1

1. Did any surveyed well casing elevations change from the previous sampling event? ☐ Yes  
If yes, attach new "Well Certification -Form B" and identify the reason for the elevation change (damage to casing, installation of recovery system in monitoring well, etc.) ☒ No
2. Are there any monitor wells in unconfined aquifers in which the water table elevation is higher than the top of the well screen? ☐ Yes  
If yes, identify these wells. ☐ No  
  
*Not applicable because confined aquifer.*
3. Are there any monitor wells present at the site but omitted from the contour map? ☐ Yes  
Unless the omission of the well(s) has been previously approved by the Department, justify the omissions. ☒ No
4. Are there any monitor wells containing separate phase product during this measuring event? ☐ Yes  
☒ No  
Were any of the monitor wells with separate phase product included in the ground water contour map? ☐ Yes  
If yes show the formula used to correct the water table elevation. ☒ No
5. Has the ground water flow direction changed more than 45 degrees from the previous ground water contour map? ☐ Yes  
If yes, discuss the reasons for the change. ☒ No
6. Has ground water mounding and/or depressions been identified in the ground water contour map? ☐ Yes  
Unless the ground water mounds and/or depressions are caused by the ground water remediation system, discuss the reasons for this occurrence. ☒ No
7. Are all the wells used in the contour map screened in the same water-bearing zone? ☒ Yes  
If no, justify inclusion of those wells. ☐ No
8. Were the ground water contours  
☒ computer generated, ☐ computer aided, or ☐ hand-drawn?  
If computer aided or generated, identify the interpolation method(s) used.

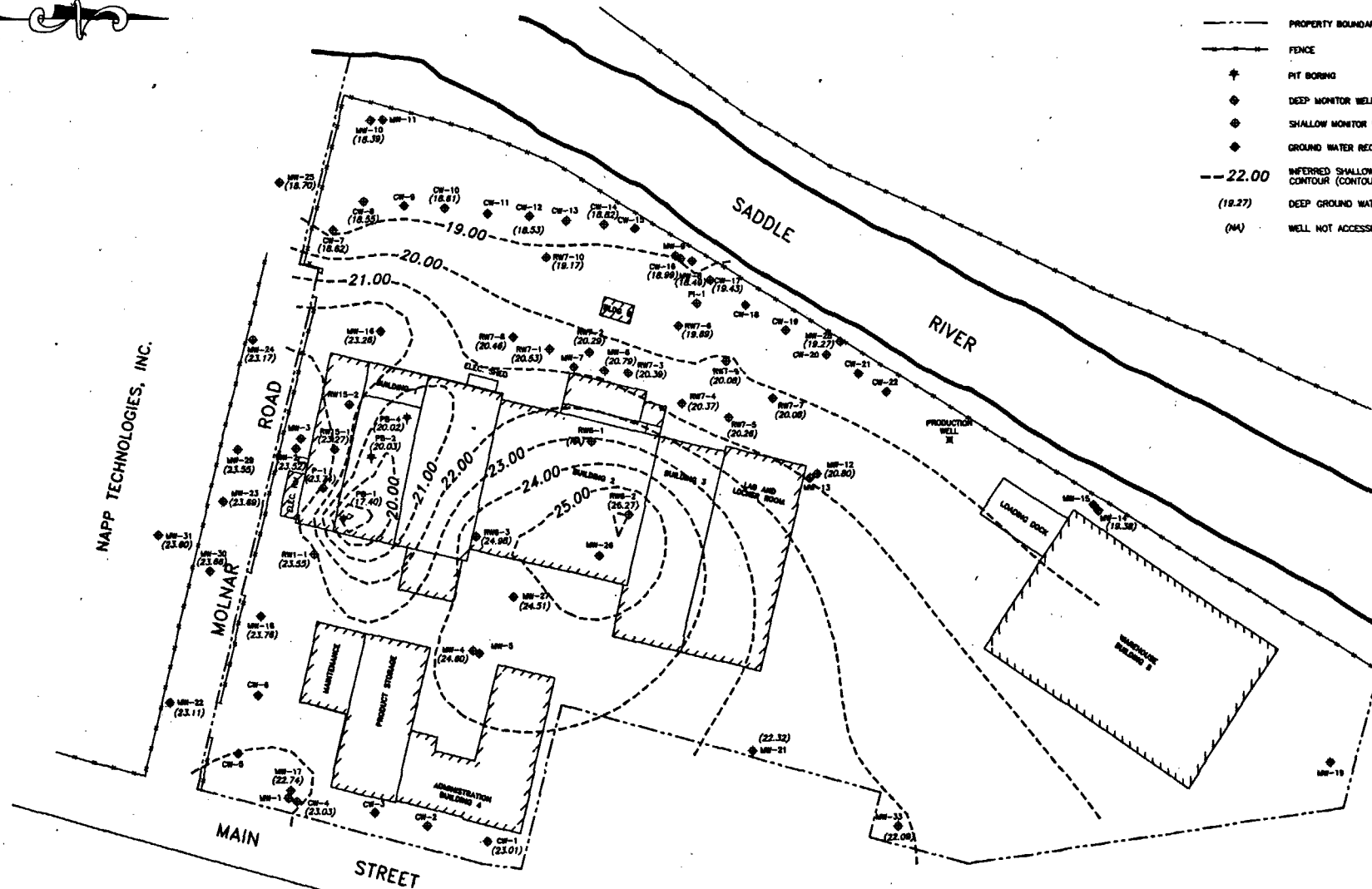
*Kriging method.*

l:\94039\Quarter1\contourd.doc

882390018

## LEGEND

- PROPERTY BOUNDARY  
 --- FENCE  
 \* PIT BORING  
 ◆ DEEP MONITOR WELL  
 ◆ SHALLOW MONITOR WELL  
 ◆ GROUND WATER RECOVERY WELL  
 --- 22.00 INFERRED SHALLOW GROUND WATER ELEVATION CONTOUR (CONTOUR INTERVAL 1.00 FT.)  
 (18.27) DEEP GROUND WATER ELEVATION, FT. NGVD  
 (NA) WELL NOT ACCESSIBLE



## NOTES:

1. BASE PLAN PROVIDED BY KILLAM ASSOCIATES.
2. ALL ELEVATIONS IN FEET, NGVD (NATIONAL GEODETIC VERTICAL DATUM).
3. CONTOURS WERE COMPUTER-GENERATED USING A KRIGING ROUTINE.
4. REFER TO TABLE 1 FOR LIST OF WELLS WHICH WERE USED TO GENERATE THE DEEP GROUND WATER ELEVATION CONTOURS.
5. WATER LEVEL IN THE BASEMENT IS PUMPED TO THE LEVEL OF THE FLOOR. THE SURFACE ELEVATION OF THE FLOOR IS APPROXIMATELY 17.5'.

Figure 1

Shallow Ground Water Elevation  
Contours on 7/28/97

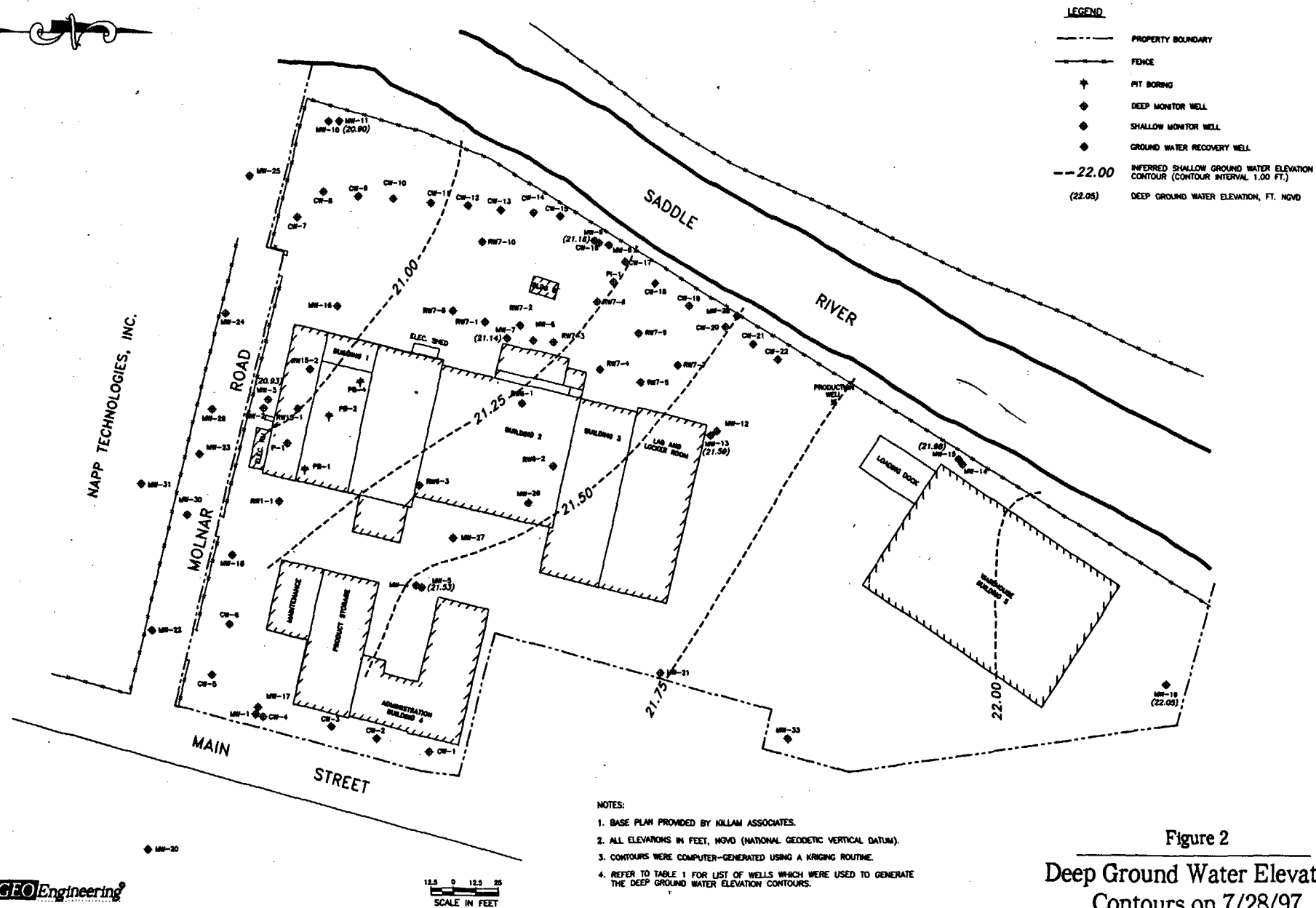


Figure 2  
 Deep Ground Water Elevation  
 Contours on 7/28/97

## **Appendix B**

### **Monthly Monitoring**

**Table 3: Monthly Water Level/Product Thickness Measurements for August 1997.**

**Table 4: Monthly Water Level/Product Thickness Measurements for September 1997**

**TABLE 3: MONTHLY WATER LEVEL/PRODUCT THICKNESS MEASUREMENTS  
FOR AUGUST 1997**  
Hexcel Facility  
Lodi, New Jersey

**GEO Engineering**  
October 1997  
File: 94039/wldata/Monthly.xls  
Entered by: SG Check: RMS

-All measurements in feet -  
-All elevations in feet (NGVD)-

MEASUREMENTS COLLECTED : 8/12/97

Well ID	Type	Depth to Water	Depth to Product		Product Thickness	Depth to Bottom	Elevation Top of Casing	Water Elevation	Comments
			DNAPL	LNAPL					
CW-7	shallow	7.79	--	--	--	13.99	26.13	18.34	
CW-12	shallow	7.41	--	--	--	13.98	25.71	18.30	Product on probe (DNAPL)**
CW-16	shallow	7.96	--	--	--	13.93	26.45	18.49	Product on probe (DNAPL)**
MW-6	shallow	10.14	--	--	--	18.44	30.74	20.60	Product on probe (DNAPL)**
MW-8	shallow	12.22	--	--	--	17.35	30.26	18.04	Product on probe (DNAPL)**
RW6-1	shallow	NA	--	--	--	NA	28.84	NA	Well not accessible due to drums
RW7-1	shallow	5.91	--	--	--	16.55	26.25	20.34	Product on probe (DNAPL)**
RW7-4	shallow	7.10	--	--	--	19.05	27.11	20.01	Product on probe (DNAPL)**
PB-1	shallow	4.35	--	--	--	NM	21.78	17.43	Sediment on probe
PB-2	shallow	1.20	--	--	--	5.82	21.25	20.05	Product on probe (DNAPL)**

NOTES: All measurements of depths are from the top of casing unless otherwise noted.

Many of the wells have accumulated sediment which results in slight fluctuations in the measurements of depth to bottom.

-- Not detected by product interface meter.

\* - In wells with LNAPL, water levels are corrected using the equation: DTW (corrected) = DTW (measured) - (Product thickness \* specific gravity).

Specific gravity of 0.88 used for water level correction (petroleum lubricating oil).

\*\* - Though the product-interface meter did not register presence of product in the well, product was observed on the probe.

NA - Well not accessible for monitoring.

NM - Depth to bottom could not be measured due to sediment in the well.

882390022

**TABLE 4: MONTHLY WATER LEVEL/PRODUCT THICKNESS MEASUREMENTS  
FOR SEPTEMBER 1997**

Hexcel Facility  
Lodi, New Jersey

**GEO Engineering**

October 1997

File: 94039/wldata/Monthly.xls

Entered by: SG Check: RMS

-All measurements in feet -  
-All elevations in feet (NGVD)-

MEASUREMENTS COLLECTED : 9/9/97

Well ID	Type	Depth to Water	Depth to Product		Product Thickness	Depth to Bottom	Elevation Top of Casing	Water Elevation	Comments
			DNAPL	LNAPL					
CW-7	shallow	7.89	--	--	--	14.00	26.13	18.24	
CW-12	shallow	7.53	--	--	--	13.96	25.71	18.18	Product on probe (DNAPL)**
CW-16	shallow	8.19	--	--	--	13.93	26.45	18.26	Product on probe (DNAPL)**
MW-6	shallow	10.34	--	--	--	18.32	30.74	20.40	Product on probe (DNAPL)**
MW-8	shallow	12.34	--	--	--	17.36	30.26	17.92	Product on probe (DNAPL)**
RW6-1	shallow	NA	--	--	--	NA	28.84	NA	Well not accessible due to drums
RW7-1	shallow	6.18	--	--	--	16.54	26.25	20.07	
RW7-4	shallow	7.23	--	--	--	19.05	27.11	19.88	Product on probe (DNAPL)**
PB-1	shallow	4.38	--	--	--	NM	21.78	17.40	Sediment on probe
PB-2	shallow	1.14	--	--	--	5.82	21.25	20.11	Product on probe (DNAPL)**

NOTES: All measurements of depths are from the top of casing unless otherwise noted.

Many of the wells have accumulated sediment which results in slight fluctuations in the measurements of depth to bottom.

-- Not detected by product interface meter.

\* - In wells with LNAPL, water levels are corrected using the equation: DTW (corrected) = DTW (measured) - (Product thickness \* specific gravity).

Specific gravity of 0.88 used for water level correction (petroleum lubricating oil).

\*\* - Though the product-interface meter did not register presence of product in the well, product was observed on the probe.

NA - Well not accessible for monitoring.

NM - Depth to bottom could not be measured due to sediment in the well.

882390023

## **Appendix C**

### **Product Recovery**

**Table 5: Product Collection (DNAPL) in Third Quarter of 1997**

**Table 6: Product Collection (LNAPL) in Third Quarter of 1997**

**TABLE 5: PRODUCT COLLECTION (DNAPL) IN THIRD QUARTER OF 1997**

Hexcel Facility  
Lodi, New Jersey

**GEO Engineering**

October 1997

File: 94039\prodcoll\prodcol2.xls

Sheet: Third QD'97 (DEP)

*All Quantities are Expressed in Gallons Rounded to the Nearest 0.1*

DATE	MW-6 (DNAPL)	MW-8 (DNAPL)	MW-26 (DNAPL)	RW6-1 (DNAPL)	RW7-1 (DNAPL)	RW7-4 (DNAPL)	RW7-5 (DNAPL)	CW-12 (DNAPL)	CW-16 (DNAPL)	PB-2 (DNAPL)	CW-15^ (DNAPL)	TOTAL VOLUME RECOVERED
7/2/97	--	*	*	*	*	*	*	*	*	--	*	
7/10/97	--	*	*	*	*	*	*	*	*	0.1	*	
7/16/97	--	*	*	*	*	*	*	*	*	0.1	*	
7/25/97	0.1	*	*	*	*	*	*	*	*	--	*	
7/28/97 (Quarterly)	--	--	--	NA	--	--	--	--	--	--	*	
8/8/97	0.1	*	*	*	*	*	*	*	*	0.1	*	
8/12/97 (Monthly)	--	--	*	NA	--	--	*	--	--	--	*	
8/20/97	--	*	*	*	*	*	*	*	*	0.1	*	
8/28/97	--	*	*	*	*	*	*	*	*	--	*	
9/5/97	--	*	*	*	*	*	*	*	*	0.1	*	
9/9/1997 (Monthly)	--	--	*	NA	--	--	*	--	--	--	*	
9/18/97	--	*	*	*	*	*	*	*	*	--	*	
9/23/97	--	*	*	*	*	*	*	*	*	--	*	
<b>TOTAL VOLUME RECOVERED, 3rd QUARTER, 1997</b>	0.2	--	--	--	--	--	--	--	--	0.5	--	0.7
<b>TOTAL VOLUME RECOVERED, 2nd QUARTER 1997</b>	0.6	--	--	--	--	--	--	--	--	--	--	0.6
<b>TOTAL VOLUME RECOVERED, 10/94 - 3/97</b>	17.8	1.0	0.4	0.1	0.3	--	--	0.7	0.7	4.1	0.8	25.9
<b>TOTAL VOLUME RECOVERED (TOTAL SINCE 10/94)</b>	18.6	1.0	0.4	0.1	0.3	--	--	0.7	0.7	4.6	0.8	27.2

**Notes:** For product recovery purposes, quantities greater than 0.1 gallons (approx. 1 cup) are considered to be "measurable". It is not practicable to separate product from mixture of water and product when quantity is less than 1 cup.

\* Well not included in the weekly product recovery program.

-- i) Well was monitored and did not indicate recoverable product or ii) no measurable amount of product was recovered either by bailing or pumping.

^ CW-15 was removed from the product recovery program on 11/22/95 because ground water recovery equipment was re-installed in the well.

NA Well not available for monitoring due to drums.

882390025

**TABLE 6: PRODUCT COLLECTION (LNAPL) IN THIRD QUARTER OF 1997**

Hexcel Facility  
Lodi, New Jersey

**GEO Engineering**

October 1997

File: 94039\prodcoll\prodcol2.xls

Sheet: Third QL'97 (DEP)

*All Quantities are Expressed in Gallons Rounded to the Nearest 0.1*

DATE	MW-6 (LNAPL)	MW-8 (LNAPL)	MW-23 (LNAPL)	RW1-1 (LNAPL)	RW 6-1 (LNAPL)	RW7-4 (LNAPL)	RW7-5 (LNAPL)	CW-7 (LNAPL)	CW-12 (LNAPL)	CW-15^ (LNAPL)	CW-16 (LNAPL)	MW-17 (LNAPL)	RW 15-1 (LNAPL)	TOTAL VOLUME RECOVERED
7/28/97 (Quarterly)	--	--	--	--	NA	--	--	0.2	--	*	--	--	--	↓
7/29/97	*	*	*	*	*	*	*	1.0	*	*	*	*	*	
8/8/97	*	*	*	*	*	*	*	0.1	*	*	*	*	*	
8/12/97 (Monthly)	--	--	*	--	NA	--	*	--	--	*	--	*	*	
8/20/97	*	*	*	*	*	*	*	--	*	*	*	*	*	
8/28/97	*	*	*	*	*	*	*	--	*	*	*	*	*	
9/5/97	*	*	*	*	*	*	*	--	*	*	*	*	*	
9/9/97 (Monthly)	--	--	*	--	NA	--	*	--	--	*	--	*	*	
TOTAL VOLUME RECOVERED, 3rd QUARTER, 1997	--	--	--	--	--	--	--	1.3	--	--	--	--	--	1.3
TOTAL VOLUME RECOVERED, 2th QUARTER 1997	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TOTAL VOLUME RECOVERED, 10/94 - 3/97	6.7	--	--	--	--	--	--	1.3	--	--	--	--	--	8.0
TOTAL VOLUME RECOVERED (TOTAL SINCE 10/94)	6.7	--	--	--	--	--	--	2.6	--	--	--	--	--	9.3

**Notes:** For product recovery purposes, quantities greater than 0.1 gallons (approx. 1 cup) are considered to be "measurable". It is not practicable to separate product from mixture of water and product when quantity is less than 1 cup.

\* Well not included in the weekly product recovery.

-- i) Monitoring did not indicate recoverable product or ii) no measurable amount of LNAPL was recovered in the absorbent pad.

^ CW-15 was removed from the product recovery program on 11/22/95 because ground water recovery equipment was re-installed in the well.

NA Well not available for monitoring due to drums.

882390026

**Appendix D**  
**Waste Disposal Documentation**



UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.		Manifest Document No.		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address Hexcel Corporation 5794 W. Las Positas Blvd. Palo Alto, CA 94388 (800) 433-5072 Attn: A. William Nosil						A. State Manifest Document Number 01371429			
5. Transporter 1 Company Name Solid Chemical Transporters, Inc.						B. State Generator's ID 99934			
6. US EPA ID Number IDE R 0 000 000 273						C. State Transporter's ID 80054			
7. Transporter 2 Company Name						D. Transporter's Phone 302-426-2999			
8. US EPA ID Number						E. State Transporter's ID			
9. Designated Facility Name and Site Address Laidlaw Environmental Services (Houston), Inc. 2027 Battleground Rd. Deer Park, TX 77536						F. Transporter's Phone			
10. US EPA ID Number TXD 0 5 5 1 4 1 3 7 8						G. State Facility's ID			
11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)						12. Containers		13. Total Quantity	
						Type		14. Unit Wt/Vol	
X a. Hazardous Waste Solid, N.O.S., 9, NA3077, PGLIII (2-Bromoethylbenzene, Tetrachloroethylene) (PCBs)						001		00135	
X b. Hazardous Waste Solid, N.O.S., 9, NA3077, PGLIII (2-Bromoethylbenzene, Tetrachloroethylene)						010		00520	
X c. Hazardous Waste Solid, N.O.S., 9, NA3077, PGLIII (Polychlorinated Biphenyls, toluene)						001		00050	
d.									
15. Special Handling Instructions and Additional Information In case of emergency contact: A. William Nosil 800-433-5072 Emergency Response Guide# 11a) 171 11b) 171 11c) 171 Out of Service 11a) 6/20/97 11b) 6/24/97 11c) 6/10/97						K. Handling Codes for Wastes Listed Above			
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.						Pickup Location: Hexcel Corp. 205 Main St. Lodi, NJ 07644			
Printed/Typed Name Robert M. Shusko						Signature [Signature]		Month Day Year 08 20 97	
17. Transporter 1 Acknowledgement of Receipt of Materials						Date			
Printed/Typed Name Bryce Stewart						Signature [Signature]		Month Day Year 08 20 97	
18. Transporter 2 Acknowledgement of Receipt of Materials						Date			
Printed/Typed Name						Signature		Month Day Year	
19. Discrepancy Indication Space									
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.						Date			
Printed/Typed Name						Signature		Month Day Year	



Department of the Environment - Waste Management Administration  
D Broening Highway Baltimore, MD 21224

Hazardous  
Waste  
Program

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039 Expires 9/30/97

UNIFORM HAZARDOUS  
WASTE MANIFEST

1. Generator's US EPA ID NO.

MD 986584134

Manifest  
Document No.

009712

Page 1  
of 1

Information in the shaded  
areas is not required by  
Federal law.

3. Generator's Name and Mailing Address

Hexcel Corporation  
5794 W. Las Positas Blvd.  
Pleasanton, CA 94588 (800)433-5072 Attn: A. William Nozill

4. Generator's Phone

5. Transporter 1 (Company Name)

6. US EPA ID Number

DE R 000000003

A. State Manifest  
Document Number

MDC 0689776

B. State Generator's ID Number

SAME

C. State Transporter's ID

HWH

548

Vehicle Sticker Number

97A01128

DC

D. Transporter's Phone

302-426-2419

E. State Transporter's ID

HWH

Vehicle Sticker Number

A

DC

F. Transporter's Phone

G. State Facility ID

H. Facility's Phone

301-939-6000

9. Designated Facility Name and Site Address

Laidlaw Environmental Services(TS), Inc.  
3527 Whiskey Bottom Rd.  
Laurel, MD 20724

10. US EPA ID Number

MD 980554653

11. US DOT Description (Including Proper Shipping Name, Hazard Class  
and ID Number)

12. Containers  
No. Type

13. Total Quantity

14. Unit  
W/Vol

I. Waste No.

a. RQ, Hazardous Waste Liquid, N.O.S., 9, SA3082  
PGIII(Tetrachloroethylene, Trichloroethylene)(PCB)

037

DM

257672

W

PCB 2

b.

c.

d.

J. Additional Description for Materials Listed Above

HAZ CODE

Physical  
State

Specific Gravity

Percentage

HAZ CODE

Physical  
State

Specific Gravity

Percentage

K. Handling Codes for  
Waste Listed Above

a. E L 1.0 100 %

c. 100 %

a. S c.

b. 100 %

d. 100 %

b. d.

15. Special Handling Instructions and Additional Information

11a) Additional Codes: D021, D027, D039, D040  
Emergency Response Guide # 11a) 171

Pickup Location: Hexcel Corp.  
205 Main St.  
Lodi, NJ 07644

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and Maryland Statutes or Regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name

Signature

Date

Robert M. Shushko

Robert M. Shushko

082097

17. Transporter 1 (Acknowledgement of Receipt of Materials)

Printed/Typed Name

Signature

Date

Robert M. Shushko

Robert M. Shushko

082097

18. Transporter 2 (Acknowledgement of Receipt of Materials)

Printed/Typed Name

Signature

Date

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name

Signature

Date



State of New Jersey  
Department of Environmental Protection  
Hazardous Waste Regulation Program  
Manifest Section  
CN 421, Trenton, NJ 08625-0421

file

Please type or print in block letters. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039. Expires 9-30-97

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. NJ D 9 8 6 5 8 4 1 3 4 0 1 7 0 1		Manifest Document No. 0 1 7 0 1		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.		
3. Generator's Name and Mailing Address Hexcel Corporation 5794 W. Las Positas Blvd. Pleasanton, CA 94588 Generator's Phone (500) 433-5072 Attn: Kevin Greener A. William Nosil						A. State Manifest Document Number <b>NJA 2766518</b>				
4. Generator's Phone (500) 433-5072						B. State Generator's ID (Gen. Site Address) SAME				
5. Transporter 1 Company Name Laidlaw Environmental Services (Bridgeport), Inc. US EPA ID Number NJ D 0 5 3 2 8 8 2 3 9						C. State Trans. ID-NJDEP 503978 Decal No. 76888				
7. Transporter 2 Company Name						D. Transporter's Phone (609) 467-3100				
9. Designated Facility Name and Site Address Laidlaw Environmental Services (Bridgeport), Inc. Rt 322 & I-295 Bridgeport, NJ 08014						E. State Trans. ID-NJDEP Decal No.				
10. US EPA ID Number NJ D 0 5 3 2 8 8 2 3 9						F. Transporter's Phone ( )				
11. US DOT Description (Including Proper Shipping Name, Hazard Class or Division, ID Number and Packing Group) HM RQ, Hazardous Waste, Liquid, N.O.S., 9, NA 3082 PGIII (XXXXXXXXXXXXXXXXXXXX) (D021, D022, D027, D039, D040)						12. Containers No. Type		13. Total Quantity Est.	14. Unit Wt/Vol G	15. Waste No. 0 0 2 1
J. Additional Descriptions for Materials Listed Above L-40397 L.E. D022, D027 D028, D039, D040 a. Water treatment liquid						K. Handling Codes for Wastes Listed Above a. T03				
15. Special Handling Instructions and Additional Information In Case of Emergency Contact: A. William Nosil 11a) ERG # 171 (800) 433-5072 Pickup Location: Hexcel Corp: 205 Main St. Lodi, NJ 07644										
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford. Printed/Typed Name As agent on behalf of Hexcel Corporation Robert M. Shusko Signature [Signature] Month Day Year 10/7/16/97										
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name Kenneth W GARDNER Signature [Signature] Month Day Year 10/7/16/97										
18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name Signature Month Day Year										
19. Discrepancy Indication Space IL 100-50-10 I 100-50-10 SC0987574047 Item B. 205 Main Street Lodi, NJ 07644 GM										
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19. Printed/Typed Name Gina M. Morlock Signature [Signature] Month Day Year 10/7/16/97										

## **Appendix E**

### **Schedule Estimates**

**Table 7: Estimated Schedule of Remaining Remedial Activities**

TABLE 7. ESTIMATED SCHEDULE OF REMAINING REMEDIAL ACTIVITIES

Hexcel Facility  
Lodi, New Jersey

**GEO** Engineering

October 1997

File: 94039\progrptlsched6.xls

1997

TASK DESCRIPTION	1	2	3	4	5	6	7	8	9	10	11	12
<b>GROUND WATER REMEDIATION</b>												
DNAPL/LNAPL recovery (temporary)												
Recover water from basement Bldg. 1												
Obtain off-site data from Army Corps well												
Reevaluate ground water remedial plans *												
Prep. design proposal for recov. sys. *												
NJDEP review of design proposal *												
Install permanent recovery system *												
Operate and maintain recovery system *												
Install deep well in vicinity of MW-1												
Replace well MW-26												
Prepare a report of ground water results												
<b>CLEANING OF SEWER LINE</b>												
Cleanout/abandonment of sewer line *												
Collect samples (and lab. analysis) *												
Disposal of sludge/debris *												
<b>SOIL REMEDIATION</b>												
Reevaluate soil remedial plans *												
Prepare a report of soil results												
<b>SEDIMENT SAMPLING</b>												
Collect and analyze samples												
<b>REPORTING</b>												
Prepare quarterly progress reports												
Prepare final report *												
NJDEP review and site inspection *												
Case closure *												

\* Timing is dependent on availability of regional information.

882390032

## **Appendix A**

### **Quarterly Monitoring**

**Table 1: Quarterly Water Level/Product Thickness Measurements (4/28/97)**

**Table 2: Well Construction Data**

**Contour Map Reporting Form for Figure 1**

**Figure 1: Shallow Ground Water Elevation Contours on 4/28/97**

**Contour Map Reporting Form for Figure 2**

**Figure 2: Deep Ground Water Elevation Contours on 4/28/97**

TABLE 1: QUARTERLY WATER LEVEL/PRODUCT THICKNESS MEASUREMENTS (4/28/97)

Hexcel Facility  
Lodi, New Jersey-All measurements in feet -  
-All elevations in feet (NGVD)-

GEO Engineering

July 1997

File: 94039/wldata/Quartrly.xls

Entered by: SM Checked by: YS

Well ID	Type	Depth to Water (4/28/97)	Depth to Product		Product Thickness	Depth to Bottom (4/28/97)	Elevation Top of Casing	Water Elevation	Well Construction (all 4" diameter unless otherwise noted)		
			DNAPL	LNAPL					Type	Casing	Comments
RW Series:											
RW1-1	shallow	4.99	--	--	--	14.32	28.24	23.25	flush	s.steel	
RW6-1	shallow	N/A	--	--	--	N/A	28.84	N/A	flush	s.steel	Not accessible; pallets of drums covering the well.
RW6-2	shallow	3.50	--	--	--	14.86	29.34	25.84	flush	s.steel	Orange sediment on probe.
RW6-3	shallow	3.74	--	--	--	5.46	28.72	24.98	flush	s.steel	
RW7-1	shallow	5.28	--	--	--	16.62	26.25	20.97	flush	s.steel	
RW7-2	shallow	5.76	--	--	--	16.88	26.48	20.72	flush	s.steel	Sediment on probe.
RW7-3	shallow	5.95	--	--	--	17.24	26.78	20.83	flush	s.steel	Sediment on probe
RW7-4	shallow	6.26	--	--	--	19.06	27.11	20.85	flush	s.steel	Sediment on probe.
RW7-5	shallow	6.85	--	--	--	19.26	27.57	20.72	flush	s.steel	
RW7-6	shallow	5.95	--	--	--	15.03	26.48	20.53	flush	s.steel	
RW7-7	shallow	-	--	--	--	N/A	26.89	N/A	flush	s.steel	Under Water (puddle) - No measurement possible
RW7-8	shallow	4.69	--	--	--	15.02	25.90	21.21	flush	s.steel	
RW7-9	shallow	6.48	--	--	--	16.18	26.87	20.39	flush	s.steel	Sediment on probe.
RW7-10	shallow	6.62	--	--	--	14.22	26.10	19.48	flush	s.steel	Sediment on probe
RW15-1	shallow	6.78	--	--	--	14.92	29.95	23.17	flush	s.steel	Sediment on probe.
RW15-2	shallow						30.15		flush	s.steel	Well not included in quarterly monitoring plan.
P Series:											
P-1	shallow	6.48	--	--	--	9.55	30.09	23.61	flush	1.5" pvc	Well appears to be filled with sediment.
P-2	shallow	WA	--	--	--	WA	30.19	WA	flush	1.5" pvc	Well was sealed on March 29, 1996.
PI Series:											
PI-1	deep						26.90		flush	8" s.steel	Well not included in quarterly monitoring plan

882390034

TABLE 1: QUARTERLY WATER LEVEL/PRODUCT THICKNESS MEASUREMENTS (4/28/97)

Hexcel Facility  
Lodi, New Jersey-All measurements in feet -  
-All elevations in feet (NGVD)-

GEO Engineering

July 1997

File: 94039/wldata/Quartrly.xls

Entered by: SM Checked by: YS

Well ID	Type	Depth to Water (4/28/97)	Depth to Product		Product Thickness	Depth to Bottom (4/28/97)	Elevation Top of Casing	Water Elevation	Well Construction (all 4" diameter unless otherwise noted)		
			DNAPL	LNAPL					Type	Casing	Comments
CW Series:											
CW-1	shallow	6.80	--	--	--	11.48	29.77	22.97	flush	s.steel	
CW-2	shallow						29.51		flush	s.steel	Well not included in quarterly monitoring plan.
CW-3	shallow						29.72		flush	s.steel	Recovery well; not included in monitoring plan.
CW-4	shallow	5.88	--	--	--	11.01	28.83	22.95	flush	s.steel	
CW-5	shallow						28.67		flush	s.steel	Recovery well; not included in monitoring plan.
CW-6	shallow						28.93		flush	s.steel	Well not included in quarterly monitoring plan.
CW-7	shallow	5.85	--	--	--	14.08	26.13	20.28	flush	s.steel	
CW-8	shallow	6.51	--	--	--	13.97	26.77	20.26	flush	s.steel	
CW-9	shallow						26.37		flush	s.steel	Recovery well; not included in monitoring plan.
CW-10	shallow	6.31	--	--	--	10.31	25.91	19.60	flush	s.steel	
CW-11	shallow						25.74		vaultbox	s.steel	Recovery well; not included in monitoring plan.
CW-12	shallow	5.85	--	--	--	14.02	25.71	19.86	flush	s.steel	Product on probe ( DNAPL).
CW-13	shallow						26.05		flush	s.steel	Well not included in quarterly monitoring plan.
CW-14	shallow	6.94	--	--	--	13.94	26.37	19.43	flush	s.steel	
CW-15	shallow						26.31		flush	s.steel	Recovery well; not included in monitoring plan.
CW-16	shallow	6.02	--	--	--	13.96	26.45	20.43	flush	s.steel	Product on probe (DNAPL).
CW-17	shallow	5.36	--	--	--	14.01	26.25	20.89	flush	s.steel	
CW-18	shallow						26.61		flush	s.steel	Recovery well; not included in monitoring plan.
CW-19	shallow						26.50		flush	s.steel	Well not included in quarterly monitoring plan.
CW-20	shallow						26.74		flush	s.steel	Well not included in quarterly monitoring plan.
CW-21	shallow						26.77		flush	s.steel	Recovery well; not included in monitoring plan.
CW-22	shallow						26.35		flush	s.steel	Well not included in quarterly monitoring plan.

882390035

TABLE 1: QUARTERLY WATER LEVEL/PRODUCT THICKNESS MEASUREMENTS (4/28/97)

Hexcel Facility  
Lodi, New Jersey

-All measurements in feet -  
-All elevations in feet (NGVD)-

GEO Engineering

July 1997

File: 94039/wldata/Quartrly.xls

Entered by: SM Checked by: YS

Well ID	Type	Depth to Water (4/28/97)	Depth to Product		Product Thickness	Depth to Bottom (4/28/97)	Elevation Top of Casing	Water Elevation	Well Construction (all 4" diameter unless otherwise noted)		
			DNAPL	LNAPL					Type	Casing	Comments
MW Series:											
MW-1	(a)	9.56	--	--	--	23.58	32.42	22.86	stickup	pvc	
MW-2	shallow	7.28	--	--	--	10.28	31.00	23.72	stickup	pvc	
MW-3	deep	8.88	--	--	--	30.82	31.13	22.25	stickup	pvc	Sediment on probe
MW-4	shallow	7.85	--	--	--	10.94	32.33	24.48	stickup	pvc	
MW-5	deep	9.98	--	--	--	20.41	32.54	22.56	stickup	pvc	
MW-6	shallow	9.88	--	--	--	18.33	30.74	20.86	stickup	pvc	Product on probe (DNAPL).
MW-7	deep	8.24	--	--	--	32.92	30.68	22.44	stickup	pvc	
MW-8	shallow	9.23	--	--	--	17.40	30.26	21.03	stickup	pvc	Sediment/Product (DNAPL) on probe
MW-9	deep	7.30	--	--	--	29.66	29.83	22.53	stickup	pvc	
MW-10	shallow	10.13	--	--	--	16.77	30.83	20.70	stickup	pvc	Sediment on probe
MW-11	deep	8.54	--	--	--	33.59	30.78	22.24	stickup	pvc	
MW-12	shallow	10.21	--	--	--	17.26	31.01	20.80	stickup	pvc	
MW-13	deep	8.43	--	--	--	33.27	31.16	22.73	stickup	pvc	
MW-14	shallow	8.64	--	--	--	15.63	30.70	22.06	stickup	pvc	
MW-15	deep	7.68	--	--	--	25.63	30.77	23.09	stickup	pvc	
MW-16	shallow	6.22	--	--	--	12.69	29.69	23.47	stickup	pvc	
MW-17	shallow	8.60	--	--	--	14.12	31.44	22.84	stickup	pvc	Sediment on probe.
MW-18	shallow	8.70	--	--	--	11.32	32.23	23.53	stickup	pvc	
MW-19	deep	6.11	--	--	--	26.65	29.08	22.97	stickup	pvc	
MW-20	shallow	4.74	--	--	--	19.87	27.95	23.21	flush	pvc	
MW-21	shallow	8.41	--	--	--	15.18	30.67	22.26	stickup	pvc	Sediment on probe
MW-22	shallow	4.96	--	--	--	8.26	28.45	23.49	flush	pvc	
MW-23	shallow	4.11	--	--	--	9.64	27.51	23.40	flush	pvc	Brown sediment on probe.
MW-24	shallow	3.02	--	--	--	9.71	26.51	23.49	flush	pvc	
MW-25	shallow	6.02	--	--	--	12.78	26.03	20.01	flush	pvc	

882390036

TABLE 1: QUARTERLY WATER LEVEL/PRODUCT THICKNESS MEASUREMENTS (4/28/97)

Hexcel Facility  
Lodi, New Jersey

-All measurements in feet -  
-All elevations in feet (NGVD)-

GEO Engineering

July 1997

File: 94039/wldata/Quartrly.xls

Entered by: SM Checked by: YS

Well ID	Type	Depth to Water (4/28/97)	Depth to Product		Product Thickness	Depth to Bottom (4/28/97)	Elevation Top of Casing	Water Elevation	Well Construction (all 4" diameter unless otherwise noted)		
			DNAPL	LNAPL					Type	Casing	Comments
MW Series:											
MW-26	(b)	8.22	--	--	--	17.48	28.85	20.63	flush	2" pvc	
MW-27	shallow	7.03	--	--	--	12.56	31.43	24.40	stickup	pvc	
MW-28	shallow	8.53	--	--	--	14.82	29.68	21.15	stickup	pvc	Orange/brown sediment on probe
MW-29	shallow	3.82	--	--	--	9.36	27.32	23.50	flush	pvc	Brown sediment on probe.
MW-30	shallow	5.26	--	--	--	10.51	28.08	22.82	flush	pvc	Orange sediment on probe.
MW-31	shallow	4.55	--	--	--	10.64	27.95	23.40	flush	pvc	
MW-32	shallow	WA				WA	32.51	WA	stickup	pvc	Well was sealed on March 29, 1996.
MW-33	shallow	9.41	--	--	--	17.02	31.72	22.31	stickup	pvc	Orange sediment on probe.
PB Series:											
PB-1	shallow	N/A	--	--	--	N/A	21.78	N/A	stickup	2" g.steel	Well filled with sediment; No measurement possible.
PB-2	shallow	1.06	--	--	--	5.84	21.25	20.19	stickup	2" g.steel	Sediment on probe.
PB-4	shallow	1.36	--	--	--	5.17	21.52	20.16	stickup	2" g.steel	Sediment on probe.

NOTES: All measurements of depths are from the top of casing unless otherwise noted.

-- : Not detected by product interface meter.

N/A : Well not accessible.

(a) : Subsurface investigation in December 1995 near MW-1 revealed that MW-1 is not a deep well; refer to Section 1a of the April 1996 Progress Report for details.

(b) : Construction data for MW-26 reveal that MW-26 is not a deep well; refer to Section 1a of the April 1996 Progress Report for details.

WA : Well was sealed on March 29, 1996. Refer to April 1996 Progress Report for details.

\* : In wells with LNAPL, water levels are corrected using the equation: DTW (corrected) = DTW (measured) - (Product thickness \* specific gravity).  
Specific gravity of 0.88 used for water level correction (petroleum lubricating oil).

Many of the wells have accumulated sediment which results in slight fluctuations in the measurements of depth to bottom.

882390037

TABLE 2: WELL CONSTRUCTION DATA

Hexcel Facility  
Lodi, New Jersey-All measurements in feet -  
-All elevations in feet (NGVD)-

GEO Engineering

July 1997

File: 94039/wldata/wellscrn.xls

Well ID	Type	Ground Elevation	Elevation Top of Casing	Depth to Bottom (4/28/97)	Length of Screen	Elevation Top of Screen	Water Elevation (4/28/97)	Well Construction *		Installation		Water Table Elv. > Top of Screen Elv.
								Type	Casing	Date	By	
RW Series:												
RW1-1	shall.	28.67	28.24	14.32	10	23.67	23.25	flush	s.steel	10/91	Heritage	No
RW6-1	shall.	29.28	28.84	N/A	5	20.28	N/A	flush	s.steel	8/90	Heritage	N/A
RW6-2	shall.	U	29.34	14.86	5	U	25.84	flush	s.steel	8/90	Heritage	U
RW6-3	shall.	29.02	28.72	5.46	5	27.52	24.98	flush	s.steel	8/90	Heritage	No
RW7-1	shall.	26.94	26.25	16.62	5	13.94	20.97	flush	s.steel	8/90	Heritage	Yes
RW7-2	shall.	27.07	26.48	16.88	5	14.57	20.72	flush	s.steel	8/90	Heritage	Yes
RW7-3	shall.	27.17	26.78	17.24	5	14.67	20.83	flush	s.steel	8/90	Heritage	Yes
RW7-4	shall.	27.60	27.11	19.06	5	13.60	20.85	flush	s.steel	8/90	Heritage	Yes
RW7-5	shall.	27.97	27.57	19.26	5	12.97	20.72	flush	s.steel	9/90	Heritage	Yes
RW7-6	shall.	27.10	26.48	15.03	5	17.10	20.53	flush	s.steel	9/90	Heritage	Yes
RW7-7	shall.	27.25	26.89	N/A	5	17.25	N/A	flush	s.steel	9/90	Heritage	N/A
RW7-8	shall.	26.71	25.90	15.02	5	16.71	21.21	flush	s.steel	9/90	Heritage	Yes
RW7-9	shall.	27.18	26.87	16.18	5	15.18	20.39	flush	s.steel	2/91	Heritage	Yes
RW7-10	shall.	26.50	26.10	14.22	5	16.50	19.48	flush	s.steel	2/91	Heritage	Yes
RW15-1	shall.	30.43	29.95	14.92	10	25.68	23.17	flush	s.steel	8/90	Heritage	No
RW15-2	shall.	30.37	30.15		10	26.37	NI	flush	s.steel	8/90	Heritage	NI
P Series:												
P-1	shall.	U	30.09	9.55	U	U	23.61	flush	1.5" pvc	U	U	U
P-2	shall.	U	30.19	WA	U	U	WA	flush	1.5" pvc	U	U	U, WA
PI Series:												
PI-1	deep	U	26.90		U	U	NI	flush	s.steel	10/91	Heritage	^

TABLE 2: WELL CONSTRUCTION DATA  
Hexcel Facility  
Lodi, New Jersey

-All measurements in feet -  
-All elevations in feet (NGVD)-

GEO Engineering  
July 1997  
File: 94039/wldata/wellscrn.xls

Well ID	Type	Ground Elevation	Elevation Top of Casing	Depth to Bottom (4/28/97)	Length of Screen	Elevation Top of Screen	Water Elevation (4/28/97)	Well Construction *		Installation		Water Table Elv. > Top of Screen Elv.
								Type	Casing	Date	By	
CW Series:												
CW-1	shall.	30.27	29.77	11.48	5	23.27	22.97	flush	s.steel	9/90	Heritage	No
CW-2	shall.	30.11	29.51		5	23.11	NI	flush	s.steel	9/90	Heritage	NI
CW-3	recov.	U	29.72		5	U	NI	flush	s.steel	9/90	Heritage	NI
CW-4	shall.	29.10	28.83	11.01	5	22.60	22.95	flush	s.steel	7/90	Heritage	Yes
CW-5	recov.	28.89	28.67		5	22.39	NI	flush	s.steel	7/90	Heritage	NI
CW-6	shall.	29.25	28.93		5	25.25	NI	flush	s.steel	9/90	Heritage	NI
CW-7	shall.	26.70	26.13	14.08	5	17.70	20.28	flush	s.steel	8/90	Heritage	Yes
CW-8	shall.	26.70	26.77	13.97	5	17.70	20.26	flush	s.steel	8/90	Heritage	Yes
CW-9	recov.	26.60	26.37		5	17.60	NI	flush	s.steel	8/90	Heritage	NI
CW-10	shall.	26.50	25.91	10.31	5	17.50	19.60	flush	s.steel	8/90	Heritage	Yes
CW-11	recov.	26.60	25.74		5	17.60	NI	vaultbox	s.steel	8/90	Heritage	NI
CW-12	shall.	26.51	25.71	14.02	5	17.51	19.86	flush	s.steel	8/90	Heritage	Yes
CW-13	shall.	26.60	26.05		5	17.60	NI	flush	s.steel	8/90	Heritage	NI
CW-14	shall.	26.70	26.37	13.94	5	17.70	19.43	flush	s.steel	8/90	Heritage	Yes
CW-15	recov.	26.90	26.31		5	17.90	NI	flush	s.steel	8/90	Heritage	NI
CW-16	shall.	27.00	26.45	13.96	5	18.00	20.43	flush	s.steel	8/90	Heritage	Yes
CW-17	shall.	27.10	26.25	14.01	5	18.10	20.89	flush	s.steel	8/90	Heritage	Yes
CW-18	recov.	27.20	26.61		5	18.20	NI	flush	s.steel	8/90	Heritage	NI
CW-19	shall.	27.20	26.50		5	18.20	NI	flush	s.steel	8/90	Heritage	NI
CW-20	shall.	27.30	26.74		5	18.30	NI	flush	s.steel	8/90	Heritage	NI
CW-21	recov.	27.40	26.77		5	18.40	NI	flush	s.steel	8/90	Heritage	NI
CW-22	shall.	27.30	26.35		5	18.30	NI	flush	s.steel	8/90	Heritage	NI

TABLE 2: WELL CONSTRUCTION DATA

Hexcel Facility  
Lodi, New Jersey-All measurements in feet -  
-All elevations in feet (NGVD)-

GEO Engineering

July 1997

File: 94039/wldata/wellscrn.xls

Well ID	Type	Ground Elevation	Elevation Top of Casing	Depth to Bottom (4/28/97)	Length of Screen	Elevation Top of Screen	Water Elevation (4/28/97)	Well Construction *		Installation		Water Table Elv. > Top of Screen Elv.
								Type	Casing	Date	By	
MW Series:												
MW-1	(a)	29.03	32.42	23.58	5	13.88	22.86	stickup	pvc	7/88	Environ	(a)
MW-2	shall.	27.90	31.00	10.28	5	26.13	23.72	stickup	pvc	8/88	Environ	No
MW-3	deep	27.84	31.13	30.82	5	5.30	22.25	stickup	pvc	8/88	Environ	^
MW-4	shall.	29.02	32.33	10.94	5	27.49	24.48	stickup	pvc	8/88	Environ	No
MW-5	deep	29.03	32.54	20.41	5	9.12	22.56	stickup	pvc	8/88	Environ	^
MW-6	shall.	27.14	30.74	18.33	10	22.12	20.86	stickup	pvc	8/88	Environ	No
MW-7	deep	27.18	30.68	32.92	5	2.55	22.44	stickup	pvc	7/88	Environ	^
MW-8	shall.	26.92	30.26	17.40	10	22.98	21.03	stickup	pvc	8/88	Environ	No
MW-9	deep	26.89	29.83	29.66	5	5.09	22.53	stickup	pvc	7/88	Environ	^
MW-10	shall.	27.33	30.83	16.77	11	24.81	20.70	stickup	pvc	8/88	Environ	No
MW-11	deep	27.28	30.78	33.59	10	6.86	22.24	stickup	pvc	7/88	Environ	^
MW-12	shall.	27.62	31.01	17.26	10	24.05	20.80	stickup	pvc	8/88	Environ	No
MW-13	deep	27.63	31.16	33.27	5	2.89	22.73	stickup	pvc	7/88	Environ	^
MW-14	shall.	27.12	30.70	15.63	9	24.18	22.06	stickup	pvc	8/88	Environ	No
MW-15	deep	27.17	30.77	25.63	5	10.13	23.09	stickup	pvc	7/88	Environ	^
MW-16	shall.	26.71	29.69	12.69	5	22.14	23.47	stickup	pvc	8/88	Environ	Yes
MW-17	shall.	29.10	31.44	14.12	8	25.10	22.84	stickup	pvc	1/89	Environ	No
MW-18	shall.	29.04	32.23	11.32	5	25.97	23.53	stickup	pvc	8/88	Environ	No
MW-19	deep	27.30	29.08	26.65	5	7.30	22.97	stickup	pvc	1/89	Environ	^
MW-20	shall.	28.50	27.95	19.87	5	13.50	23.21	flush	pvc	11/90	Heritage	Yes
MW-21	shall.	28.80	30.67	15.18	10	25.80	22.26	stickup	pvc	9/90	Heritage	No
MW-22	shall.	28.73	28.45	8.26	5	25.73	23.49	flush	pvc	12/90	Heritage	No
MW-23	shall.	27.83	27.51	9.64	5	22.83	23.40	flush	pvc	11/90	Heritage	Yes
MW-24	shall.	26.93	26.51	9.71	5	21.93	23.49	flush	pvc	11/90	Heritage	Yes
MW-25	shall.	26.47	26.03	12.78	10	23.47	20.01	flush	pvc	9/90	Heritage	No

TABLE 2: WELL CONSTRUCTION DATA

Hexcel Facility  
Lodi, New Jersey-All measurements in feet -  
-All elevations in feet (NGVD)-

GEO Engineering

July 1997

File: 94039/wldata/wellscrn.xls

Well ID	Type	Ground Elevation	Elevation Top of Casing	Depth to Bottom (4/28/97)	Length of Screen	Elevation Top of Screen	Water Elevation (4/28/97)	Well Construction *		Installation		Water Table Elv. > Top of Screen Elv.
								Type	Casing	Date	By	
MW Series:												
MW-26	(b)	29.26	28.85	17.48	2	12.26	20.63	flush	2" pvc	12/90	Heritage	(b)
MW-27	shall.	29.10	31.43	12.56	5	24.10	24.40	stickup	pvc	9/90	Heritage	Yes
MW-28	shall.	27.50	29.68	14.82	10	24.50	21.15	stickup	pvc	9/90	Heritage	No
MW-29	shall.	27.50	27.32	9.36	5	22.50	23.50	flush	pvc	2/91	Heritage	Yes
MW-30	shall.	28.25	28.08	10.51	5	22.25	22.82	flush	pvc	2/91	Heritage	Yes
MW-31	shall.	28.33	27.95	10.64	5	22.33	23.40	flush	pvc	2/91	Heritage	Yes
MW-32	shall.	U	32.51	WA	6	U	WA	stickup	pvc	4/92	Heritage	WA
MW-33	shall.	U	31.72	17.02	10	U	22.31	stickup	pvc	4/92	Heritage	U
PB Series:												
PB-1	shallow	17.46	21.78	N/A	1	16.46	N/A	stickup	2" g.steel	6/95	GEO	N/A
PB-2	shallow	17.50	21.25	5.84	1	16.70	20.19	stickup	2" g.steel	6/95	GEO	Yes
PB-4	shallow	17.52	21.52	5.17	1	16.72	20.16	stickup	2" g.steel	6/95	GEO	Yes

NOTES: Refer to "Table 2: Summary of Well Construction Data " provided in Appendix B of Progress Report dated July 31, 1995 for the list of sources used for compiling this table.

All measurements of depths are from the top of casing unless otherwise noted.

N/A: Well was inaccessible on the day of quarterly monitoring.

NI: Well not included in the quarterly monitoring.

U: Unknown.

\*: All wells 4" diameter unless otherwise noted.

^: Well is screened in the confined aquifer, therefore, the question is not applicable.

(a): Ground water elevation data from MW-1 have been excluded from both shallow and deep aquifer contours; refer to Section 1a of the April 1996 Report for details.

(b): Ground water elevation data from MW-26 have been excluded from both shallow and deep aquifer contours; refer to Section 1a of the April 1996 Report for details.

WA: P-2 and MW-32 were sealed on March 29, 1996; refer to April 1996 Progress Report text for details.

## Contour Map Reporting Form

Site Name: Hexcel Facility, Lodi, NJ  
Project No.: 94039

Figure No.: 1  
Water levels taken on 4/28/97  
Page 1 of 2

1. Did any surveyed well casing elevations change from the previous sampling event? ☐ Yes  
If yes, attach new "Well Certification -Form B" and identify the reason for the elevation change (damage to casing, installation of recovery system in monitoring well, etc.) ☒ No

2. Are there any monitor wells in unconfined aquifers in which the water table elevation is higher than the top of the well screen? ☒ Yes  
If yes, identify these wells. ☐ No

*Monitor wells for which the water table elevations are higher than the top of the well screen are identified in Table 2: Summary of Well Construction Data provided in Appendix A.*

3. Are there any monitor wells present at the site but omitted from the contour map? ☒ Yes  
Unless the omission of the well(s) has been previously approved by the Department, justify the omissions. ☐ No

*Quarterly ground water elevation monitoring plan approved by NJDEP in its June 12, 1995 letter. For information on additional omissions, please refer to Figure 1 and Table 1.*

4. Are there any monitor wells containing separate phase product during this measuring event? ☒ Yes  
Were any of the monitor wells with separate phase product included in the ground water contour map? ☐ No  
If yes, show the formula used to correct the water table elevation. ☒ Yes  
☐ No

*Separate phase product, where present, consisted of DNAPL, therefore, no correction is required for the water table elevation.*

5. Has the ground water flow direction changed more than 45 degrees from the previous ground water contour map? ☐ Yes  
If yes, discuss the reasons for the change. ☒ No

6. Has ground water mounding and/or depressions been identified in the ground water contour map? ☒ Yes  
Unless the ground water mounds and/or depressions are caused by the ground water remediation system, discuss the reasons for this occurrence. ☐ No

*It is not known why mounding occurs in the vicinity of building 2.*

**Site Name:** Hexcel Facility, Lodi, NJ  
**Project No.:** 94039

**Figure No.:** 1  
**Water levels taken on** 4/28/97  
**Page 2 of 2**

7. Are all the wells used in the contour map screened in the same water-bearing zone? ☒ Yes  
If no, justify inclusion of those wells. ☐ No
8. Were the ground water contours  
☒ computer generated, ☐ computer aided, or ☐ hand-drawn?  
If computer aided or generated, identify the interpolation method(s) used.

*Kriging Routine*

## Contour Map Reporting Form

Site Name: Hexcel Facility, Lodi, NJ  
Project No.: 94039

Figure No.: 2  
Water levels taken on 4/28/97  
Page 1 of 1

1. Did any surveyed well casing elevations change from the previous sampling event? ☐ Yes  
If yes, attach new "Well Certification -Form B" and identify the reason for the elevation change (damage to casing, installation of recovery system in monitoring well, etc.) ☒ No

2. Are there any monitor wells in unconfined aquifers in which the water table elevation is higher than the top of the well screen? ☐ Yes  
If yes, identify these wells. ☐ No

*Not applicable because confined aquifer.*

3. Are there any monitor wells present at the site but omitted from the contour map? ☐ Yes  
Unless the omission of the well(s) has been previously approved by the Department, justify the omissions. ☒ No

4. Are there any monitor wells containing separate phase product during this measuring event? ☐ Yes  
Were any of the monitor wells with separate phase product included in the ground water contour map? ☒ No  
If yes show the formula used to correct the water table elevation. ☐ Yes  
☒ No

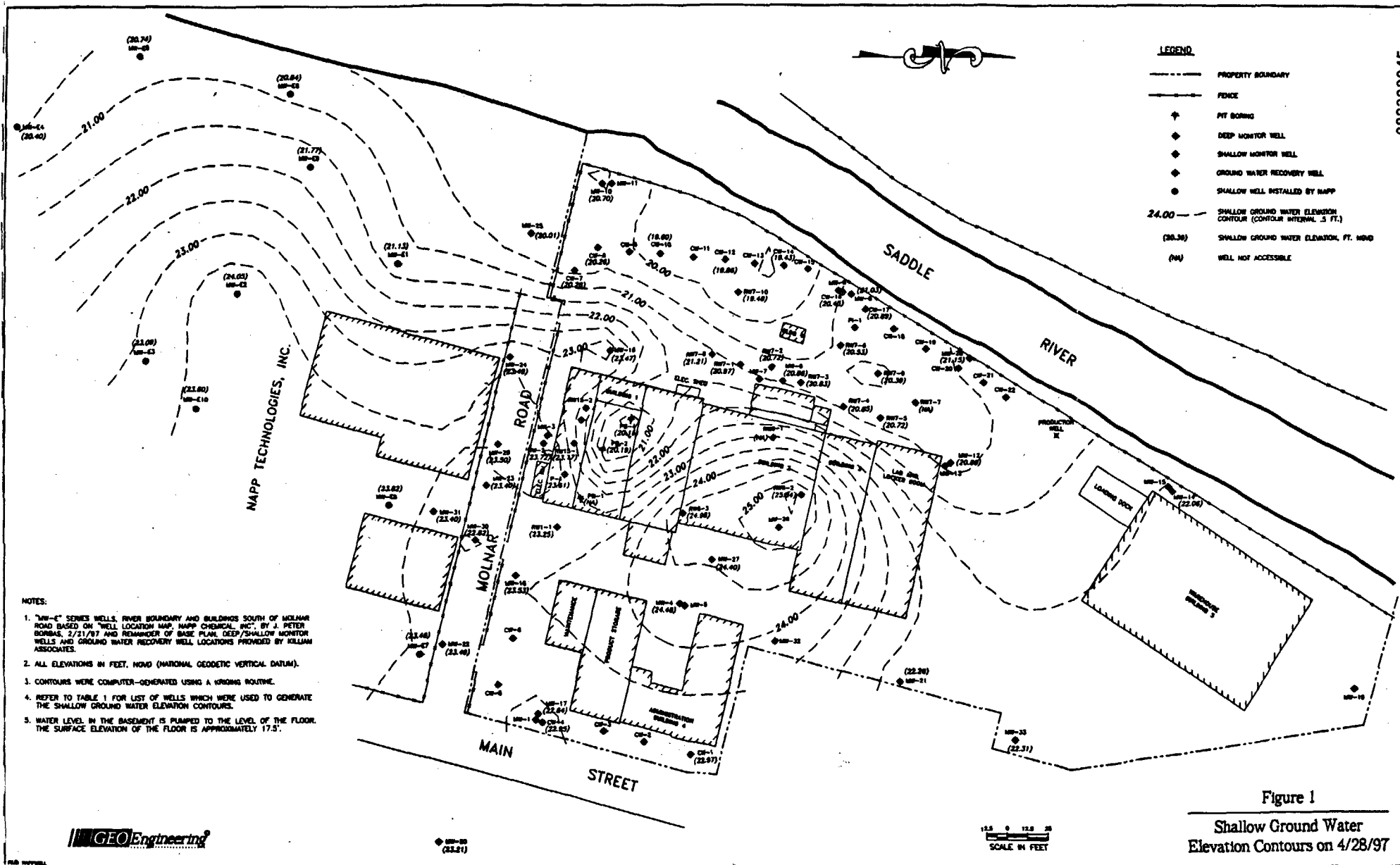
5. Has the ground water flow direction changed more than 45 degrees from the previous ground water contour map? ☐ Yes  
If yes, discuss the reasons for the change. ☒ No

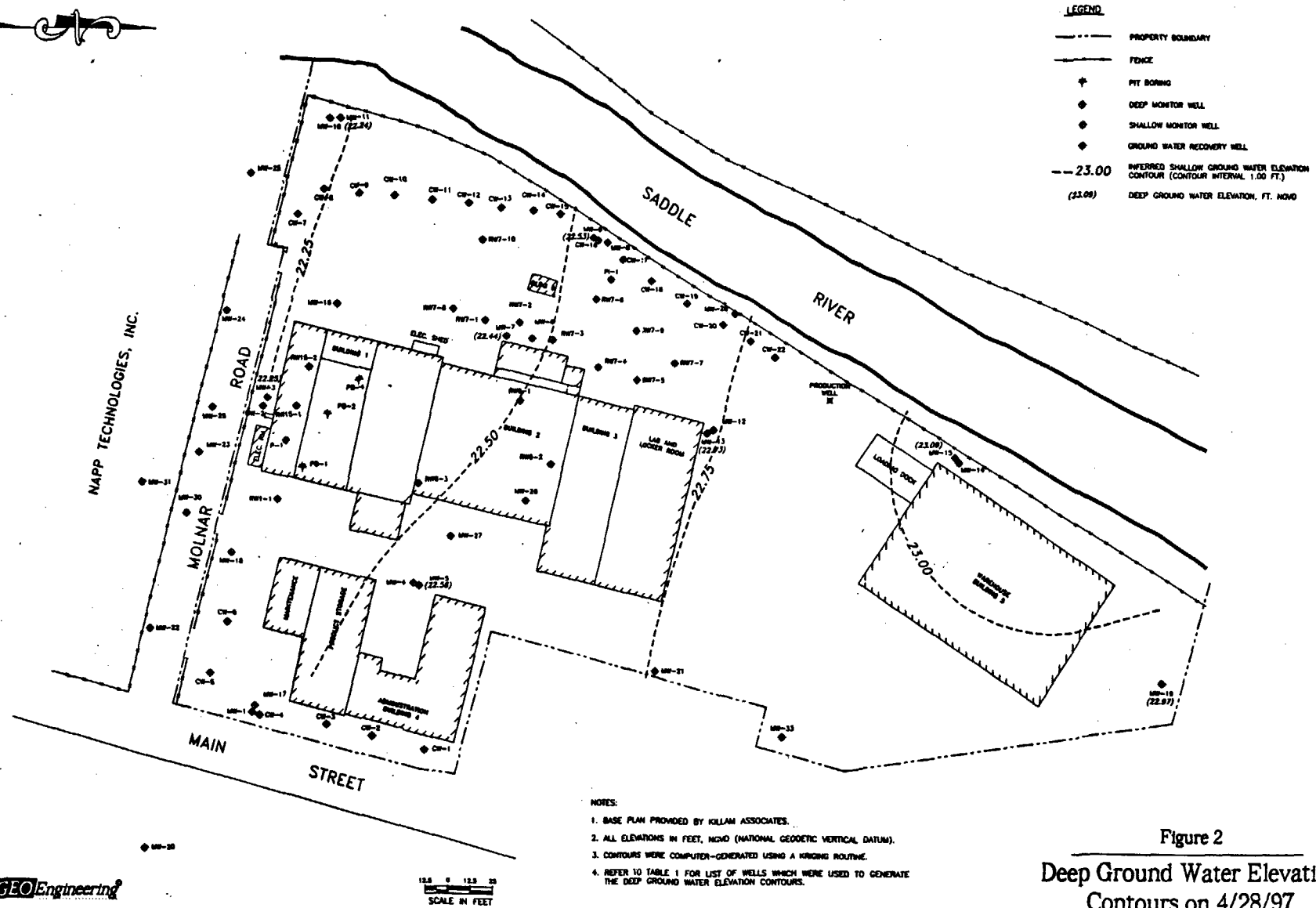
6. Has ground water mounding and/or depressions been identified in the ground water contour map? ☐ Yes  
Unless the ground water mounds and/or depressions are caused by the ground water remediation system, discuss the reasons for this occurrence. ☒ No

7. Are all the wells used in the contour map screened in the same water-bearing zone? ☒ Yes  
If no, justify inclusion of those wells. ☐ No

8. Were the ground water contours  
☒ computer generated, ☐ computer aided, or ☐ hand-drawn?  
If computer aided or generated, identify the interpolation method(s) used.

*Kriging method.*





## **Appendix B**

### **Monthly Monitoring**

**Table 3: Monthly Water Level/Product Thickness Measurements for  
May 1997**

**Table 4: Monthly Water Level/Product Thickness Measurements for  
June 1997**

**TABLE 3: MONTHLY WATER LEVEL/PRODUCT THICKNESS MEASUREMENTS**  
**FOR MAY 1997**  
Hexcel Facility  
Lodi, New Jersey

**GEO Engineering**  
July 1997  
File: 94039/wldata/Monthly.xls  
Entered by: SM Check: RMS

-All measurements in feet -  
-All elevations in feet (NGVD)-

MEASUREMENTS COLLECTED : 5/15/97

Well ID	Type	Depth to Water	Depth to Product DNAPL	Depth to Product LNAPL	Product Thickness	Depth to Bottom	Elevation Top of Casing	Water Elevation	Comments
CW-12	shallow	6.92	--	--	--	13.98	25.71	18.79	Product on probe (DNAPL,sludge)**
CW-16	shallow	7.21	--	--	--	13.94	26.45	19.24	Product on probe (DNAPL,sludge)**
MW-6	shallow	9.87	18.13	--	0.17	18.30	30.74	20.87	Product on probe (DNAPL)
MW-8	shallow	11.61	--	--	--	17.34	30.26	18.65	Product on probe (DNAPL,sludge)**
RW6-1	shallow	NA	--	--	--	NA	28.84	NA	Well not accessible due to drums
RW7-1	shallow	5.54	--	--	--	16.56	26.25	20.71	Brown sediment on probe
RW7-4	shallow	6.70	--	--	--	19.06	27.11	20.41	Product,brown sediment on probe (DNAPL)**
PB-1	shallow	2.36	--	--	--	5.20	21.78	19.42	Sediment on probe
PB-2	shallow	1.05	--	--	--	5.82	21.25	20.20	Sediment on probe

NOTES: All measurements of depths are from the top of casing unless otherwise noted.

Many of the wells have accumulated sediment which results in slight fluctuations in the measurements of depth to bottom.

-- Not detected by product interface meter.

\* - In wells with LNAPL, water levels are corrected using the equation: DTW (corrected) = DTW (measured) - (Product thickness \* specific gravity).

Specific gravity of 0.88 used for water level correction (petroleum lubricating oil).

\*\* - Though the product-interface meter did not register presence of product in the well, product was observed on the probe.

NA - Well not accessible for monitoring.

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**TABLE 4: MONTHLY WATER LEVEL/PRODUCT THICKNESS MEASUREMENTS  
FOR JUNE 1997  
Hexcel Facility  
Lodi, New Jersey**

**GEO Engineering**  
July 1997  
File: 94039/wldata/Monthly.xls  
Entered by: SM Check: RMS

-All measurements in feet -  
-All elevations in feet (NGVD)-

MEASUREMENTS COLLECTED : 6/18/97

Well ID	Type	Depth to Water	Depth to Product		Product Thickness	Depth to Bottom	Elevation Top of Casing	Water Elevation	Comments
			DNAPL	LNAPL					
CW-12	shallow	7.25	--	--	--	13.80	25.71	18.46	Product on probe (DNAPL, sludge)**
CW-16	shallow	7.56	--	--	--	13.91	26.45	18.89	Product on probe (DNAPL, sludge)**
MW-6	shallow	10.09	18.13	--	0.19	18.32	30.74	20.65	Product on probe (DNAPL)
MW-8	shallow	11.92	--	--	--	17.35	30.26	18.34	Product on probe (DNAPL, sludge)**
RW6-1	shallow	NA	--	--	--	NA	28.84	NA	Well not accessible due to drums
RW7-1	shallow	5.80	--	--	--	16.54	26.25	20.45	
RW7-4	shallow	6.95	--	--	--	19.04	27.11	20.16	Product on probe (DNAPL)
PB-1	shallow	2.30	--	--	--	5.12	21.78	19.48	Sediment on probe
PB-2	shallow	1.14	--	--	--	5.80	21.25	20.11	Brown/white sediment on probe

NOTES: All measurements of depths are from the top of casing unless otherwise noted.

Many of the wells have accumulated sediment which results in slight fluctuations in the measurements of depth to bottom.

-- Not detected by product interface meter.

\* - In wells with LNAPL, water levels are corrected using the equation: DTW (corrected) = DTW (measured) - (Product thickness \* specific gravity).

Specific gravity of 0.88 used for water level correction (petroleum lubricating oil).

\*\* - Though the product-interface meter did not register presence of product in the well, product was observed on the probe.

NA - Well not accessible for monitoring.

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## **Appendix C**

### **Product Recovery**

**Table 5: Product Collection (DNAPL) in Second Quarter of 1997**

**Table 6: Product Collection (LNAPL) in Second Quarter of 1997**


**TABLE 5: PRODUCT COLLECTION (DNAPL) IN SECOND QUARTER OF 1997**Hexcel Facility  
Lodi, New Jersey**GEO Engineering**

July 1997

File: 94039\prodcoll\prodcol2.xls

Sheet: Second QD'97 (DEP)

All Quantities are Expressed in Gallons Rounded to the Nearest 0.1

DATE	MW-6 (DNAPL)	MW-8 (DNAPL)	MW-26 (DNAPL)	RW6-1 (DNAPL)	RW7-1 (DNAPL)	RW7-4 (DNAPL)	RW7-5 (DNAPL)	CW-12 (DNAPL)	CW-16 (DNAPL)	PB-2 (DNAPL)	CW-15 <sup>^</sup> (DNAPL)	TOTAL VOLUME RECOVERED
4/10/97	0.2	*	*	*	*	*	*	*	*	--	*	
4/16/97	--	*	*	*	*	*	*	*	*	--	*	
4/24/97	0.2	*	*	*	*	*	*	*	*	--	*	
4/28/97 (Quarterly)	--	--	--	NA	--	--	--	--	--	--	*	
5/5/97	--	*	*	*	*	*	*	*	*	--	*	
5/15/97 (Monthly)	0.1	--	*	NA	--	--	*	--	--	--	*	
5/21/97	--	*	*	*	*	*	*	*	*	--	*	
5/30/97	--	*	*	*	*	*	*	*	*	--	*	
6/4/97	%	*	*	*	*	*	*	*	*	--	*	
6/10/97	--	*	*	*	*	*	*	*	*	--	*	
6/18/97 (Monthly)	--	--	*	NA	--	--	*	--	--	--	*	
6/26/97	0.1	*	*	*	*	*	*	*	*	--	*	
TOTAL VOLUME RECOVERED, 2st QUARTER, 1997	0.6	--	--	--	--	--	--	--	--	--	--	0.6
TOTAL VOLUME RECOVERED, 1st QUARTER 1997	1.4	--	--	--	--	--	--	--	0.2	--	--	1.6
TOTAL VOLUME RECOVERED, 10/94 - 12/96	16.4	1.0	0.4	0.1	0.3	--	--	0.7	0.5	4.1	0.8	24.3
TOTAL VOLUME RECOVERED (TOTAL SINCE 10/94)	18.4	1.0	0.4	0.1	0.3	--	--	0.7	0.7	4.1	0.8	26.5

**Notes:** For product recovery purposes, quantities greater than 0.1 gallons (approx. 1 cup) are considered to be "measurable". It is not practicable to separate product from mixture of water and product when quantity is less than 1 cup.

\* Well not included in the weekly product recovery program.

-- i) Well was monitored and did not indicate recoverable product or ii) no measurable amount of product was recovered either by bailing or pumping.

<sup>^</sup> CW-15 was removed from the product recovery program on 11/22/95 because ground water recovery equipment was re-installed in the well.

NA Well not available for monitoring due to drums.

% Product Recovery not possible due to pump-malfunction

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**TABLE 6: PRODUCT COLLECTION (LNAPL) IN SECOND QUARTER OF 1997**Hexcel Facility  
Lodi, New Jersey**GEO Engineering**

July 1997

File: 94039\prodcoll\prodcoll2.xls

Sheet: Second QL'97 (DEP)

*All Quantities are Expressed in Gallons Rounded to the Nearest 0.1*

DATE	MW-6 (LNAPL)	MW-8 (LNAPL)	MW-23 (LNAPL)	RW1-1 (LNAPL)	RW 6-1 (LNAPL)	RW7-4 (LNAPL)	RW7-5 (LNAPL)	CW-7 (LNAPL)	CW-12 (LNAPL)	CW-15 (LNAPL)	CW-16 (LNAPL)	MW-17 (LNAPL)	RW 15-1 (LNAPL)	TOTAL VOLUME RECOVERED
4/28/97 (Quarterly)	--	--	--	--	NA	--	--	--	--	*	--	*	*	↓
5/15/97 (Monthly)	--	--	*	--	NA	--	--	*	--	*	--	*	*	
6/18/97 (Monthly)	--	--	*	--	NA	--	--	*	--	*	--	*	*	
TOTAL VOLUME RECOVERED, 1st QUARTER, 1997	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0
TOTAL VOLUME RECOVERED, 4th QUARTER 1996	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0
TOTAL VOLUME RECOVERED, 10/94 - 9/96	6.7	--	--	--	--	--	--	1.3	--	--	--	--	--	8.0
TOTAL VOLUME RECOVERED (TOTAL SINCE 10/94)	6.7	--	--	--	--	--	--	1.3	--	--	--	--	--	8.0

**Notes:** For product recovery purposes, quantities greater than 0.1 gallons (approx. 1 cup) are considered to be "measurable". It is not practicable to separate product from mixture of water and product when quantity is less than 1 cup.

\* Well not included in the weekly product recovery.

-- i) Monitoring did not indicate recoverable product or ii) no measurable amount of LNAPL was recovered in the absorbent pad.

^ CW-15 was removed from the product recovery program on 11/22/95 because ground water recovery equipment was re-installed in the well.

NA Well not available for monitoring due to drums.

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## **Appendix D**

### **Schedule Estimates**

**Table 7: Estimated Schedule of Remaining Remedial Activities**

TABLE 7. ESTIMATED SCHEDULE OF REMAINING REMEDIAL ACTIVITIES

Hexcel Facility  
Lodi, New Jersey

**GEO** Engineering

July 1997

File: 94039\progrpt\shed6.xls

1997

TASK DESCRIPTION	1	2	3	4	5	6	7	8	9	10	11	12
<b>GROUND WATER REMEDIATION</b>												
DNAPL/LNAPL recovery (temporary)												
Recover water from basement Bldg. 1												
Obtain off-site data from Army Corps well												
Reevaluate ground water remedial plans *												
Prep. design proposal for recov. sys. *												
NJDEP review of design proposal *												
Install permanent recovery system *												
Operate and maintain recovery system *												
Install deep well in vicinity of MW-1												
Replace well MW-26												
Prepare a report of ground water results												
<b>CLEANING OF SEWER LINE</b>												
Cleanout/abandonment of sewer line *												
Collect samples (and lab. analysis) *												
Disposal of sludge/debris *												
<b>SOIL REMEDIATION</b>												
Reevaluate soil remedial plans *												
Prepare a report of soil results												
<b>SEDIMENT SAMPLING</b>												
Collect and analyze samples												
<b>REPORTING</b>												
Prepare quarterly progress reports												
Prepare final report *												
NJDEP review and site inspection *												
Case closure *												

\* Timing is dependent on availability of regional information.

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